Vishay Electro-Films, Incorporated

SAP Parts Numbering Manual

THIN FILM PART (USA) NUMBERING RULES.

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Model CC1-

SAP Part Number	SAP Description
CC1-12500KKSSNHWS	CC1 1.25K 10% 100ppm Std SnPb None H WS
CC1-5000AFCETGKWS	CC1 500 1% 50ppm Edg e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CC1- 20 x 40 size NiCr on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +-25 C = +-50 K = +-100	E = Edg S = Std U = Usr	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model CC2-

SAP Part Number	SAP Description
CC2-12500KKSSNHWS	CC2 1.25K 10% 100ppm Std SnPb None H WS
CC2-5000AFCETGKWS	CC2 500 1% 50ppm Edg e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CC2- 30 x 30 size NiCr on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	A = 0.05% B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +-25 C = +-50 K = +-100	E = Edg S = Std U = Usr	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model CC3-

SAP Part Number	SAP Description
CC3-12500KKSSNHWS	CC3 1.25K 10% 100ppm Std SnPb None H WS
CC3-5000AFCETGKWS	CC3 500 1% 50ppm Edg e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CC3- 50 x 50 size NiCr on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100	A = 0.05% B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +-25 C = +-50 K = +-100	E = Edg S = Std U = Usr	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model CC4-

SAP Part Number	SAP Description
CC4-12500KKSSNHWS	CC4 1.25K 10% 100ppm Std SnPb None H WS
CC4-5000AFCETGKWS	CC4 500 1% 50ppm Edg e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CC4- 50 x 100 size NiCr on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100	A = 0.05% B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E =+/-25 C =+/-50 K =+/-100	E = Edg S = Std U = Usr	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult T0 = Tape & Reel 100 min, 100 mult T1 = Tape & Reel 1000 min, 1000 mult T3 = Tape & Reel 300 min, 300 mult T5 = Tape & Reel 500 min, 500 mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100 min, 1 mult

Model CC5-

SAP Part Number	SAP Description
CC5-12500KKSSNHWS	CC5 1.25K 10% 100ppm Std SnPb None H WS
CC5-5000AFCETGKWS	CC5 500 1% 50ppm Edg e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CC5- 100 x 100 size NiCr on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	A = 0.05% B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +/-25 C = +/-50 K = +/-100	E = Edg S = Std U = Usr	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model CC6-

SAP Part Number	SAP Description
CC6-12500KKSSNHWS	CC6 1.25K 10% 100ppm Std SnPb None H WS
CC6-5000AFCETGKWS	CC6 500 1% 50ppm Edg e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CC6- 30 x 40 size NiCr on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	A = 0.05% B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +/-25 C = +/-50 K = +/-100	E = Edg S = Std U = Usr	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult T0 = Tape & Reel 100 min, 100 mult T1 = Tape & Reel 1000 min, 1000 mult T3 = Tape & Reel 300 min, 300 mult T5 = Tape & Reel 500 min, 500 mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100 min, 1 mult

Model CC8-

SAP Part Number	SAP Description
CC8-12500KKSSNHWS	CC8 1.25K 10% 100ppm Std SnPb None H WS
CC8-5000AFCETGKWS	CC8 500 1% 50ppm Edg e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code 17
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CC8- 20 x 20 size NiCr on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +/-25 C = +/-50 K = +/-100	E = Edg S = Std U = Usr N = Nitride	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult T0 = Tape & Reel 100 min, 100 mult T1 = Tape & Reel 1000 min, 1000 mult T3 = Tape & Reel 300 min, 300 mult T5 = Tape & Reel 500 min, 500 mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100 min, 1 mult

Model CP1

SAP Part Number	SAP Description
CP150000KCKKNHWS	CP1 5K 10% RT.25% 100ppm 10ppm None H WS
CP112500FBCJGKWS	CP1 1.25K 1% RT.1% 50ppm 5ppm Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT		1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
CP1 CC1 Chip pair	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0%	E = +-25 C = +-50 K = +-100	G = +/-2 J = +/-5 K = +/-10	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model CB1-

SAP Part Number	SAP Description
CB1-12500KKSSNHWS	CB1- 1.25K 10% 100ppm Std SnPb None H WS
CB1-5000AFCETGKWS	CB1- 500 1% 50ppm Edg e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
CB1- 20 x 40 size NiCr on BeO	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +-25 C = +-50 K = +-100	E = Edg S = Std U = Usr	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model CB3-

SAP Part Number	SAP Description
CB3-12500KKSSNHWS	CB3 1.25K 10% 100ppm Std SnPb None H WS
CB3-5000AFCETGKWS	CB3 500 1% 50ppm Edg e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CB3- 50 x 50 size NiCr on BeO	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +-25 C = +-50 K = +-100	E = Edg S = Std U = Usr	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model SFC

SAP Part Number	SAP Description
SFC12500KKSSNHWS	SFC 1.25K 10% 100ppm Std SnPb None H WS
SFC5000AFCETGKWS	SFC 500 1% 50ppm Edg e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
SFC 20 x 20 size Ta2N on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	F = 1.0% G = 2.0% J = 5.0% K = 10%	C = +/-50 K = +/-100 M = +/-250	E = Edg S = Std U = Usr	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model SFM

SAP Part Number	SAP Description
SFM50000FKANHWS	SFM 5K 1% 100ppm Al None H WS
SFM12500KCGGKWS	SFM 1.25K 10% 100 ppm Au Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
SFM 20 x 20 size Ta2N on Silicon	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% H = 2.5% J = 5.0% K = 10%	E = +/-25 C = +/-50 K = +/-100 M = +/-250 R = 0/-250 Y = +25/-100 V = +/-150 A = +100/-250 L = +/-200 N = +50/-100 P = 0/-350	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot S = Schlumberger (Special)	WS = Waffle pack 100 min, 1 mult WT = Waffle pack 10 min, 1 mult FW = Full Wafer HW = Half Wafer ST = Diced on Tape CS = Danshui Customer DW = Danshui EFI

Model SFP

SAP Part Number	SAP Description
SFP50000FKANHWS	SFP 5K 1% 100ppm Al None H WS
SFP12500KCGGKWS	SFP 1.25K 10% 100 ppm Au Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
SFP 22 x 22 size Ta2N on Silicon w/ part mark	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer ST = Diced on Tape

Model SFN

SAP Part Number	SAP Description
SFN50000FKANHWS	SFN 5K 1% 100ppm Al None H WS
SFN12500KCGGKWS	SFN 1.25K 10% 100 ppm Au Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
SFN 20 x 20 size NiCr on Silicon	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = +/-10 E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer ST = Diced on Tape

Model SFX

SAP Part Number	SAP Description
SFX10004FK5ANHWS	SFX 10M 1% 100ppm 55 Al None H WS
SFX25003KR4GGKWS	SFX 2.5M 10% 0/-250ppm 40 Au Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Size	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
SFX High value TaN on Silicon	First 4 digits are significant figures of resistance	2 = 100 3 = 1000 4 = 10000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +/-25 C = +/-50 K = +/-100 M = +/-250 W = +/-350 R = 0/-250 P = 0/-350 I = 0/-200	3 = 30 x 30 4 = 40 x 40 5 = 55 x 55	G = Au A = Al P = Al term + Silicon Nitride passivation	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot S = Special (Schlumberger) P = Part marked	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer ST = Diced on Tape

Model SC3-

SAP Part Number	SAP Description
SC3-12500KKSGNHWS	SC3 1.25K 10% 100ppm Std Au None H WS
SC3-5000AFCEANKWS	SC3 500 1% 50ppm Edg Al None K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
SC3- 50 x 50 size NiCr on Silicon	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E =+-25 C =+-50 K =+-100	E = Edg S = Std U = Usr	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model QFM

SAP Part Number	SAP Description
QFM50000FKANHWS	QFM 5K 1% 100ppm Al None H WS
QFM12500KCGGKWS	QFM 1.25K 10% 100 ppm Au Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
QFM 20 x 20 size Ta2N on Quartz	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = Gold A = Aluminum	G = Gold N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model QFN

SAP Part Number	SAP Description
QFN50000FKANHWS	QFN 5K 1% 100ppm Al None H WS
QFN12500KCGGKWS	QFN 1.25K 10% 100 ppm Au Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
QFN 20 x 20 size NiCr on Quartz	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = Gold A = Aluminum	G = Gold N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model QFX

SAP Part Number	SAP Description
QFX10003FK4ANHWS	QFX 1M 1% 100ppm/C 40SQ AL PAD CLASS H WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Size	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
QFX High value TaN on Quartz	First 4 digits are significant figures of resistance	2 = 100 3 = 1000 4 = 10000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +/- 25 C = +/-50 K = +/-100 M = +/-250 W = +/-350 I = 0/-200 R = 0/-250 P = 0/-350	3 = 30 x 30 4 = 40 x 40 5 = 55 x 55	G = Gold A = Aluminum	G = Gold N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model NFX

SAP Part Number	SAP Description
NFX10004FK5ANHWS	NFX 10M 1% 100ppm 55 Al None H WS
NFX25003KR4GGKWS	NFX 2.5M 10% 0/-250ppm 40 Au Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Size	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
NFX High value NiCr on Silicon	First 4 digits are significant figures of resistance	2 = 100 3 = 1000 4 = 10000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	C = +/-50 K = +/-100 M = +/-250 W = +/-350	3 = 30 x 30 4 = 40 x 40 5 = 55 x 55	G = Gold A = Aluminum	G = Gold N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model CFX

SAP Part Number	SAP Description
CFX10004FK5ANHWS	CFX 10M 1% 100ppm 55 Al None H WS
CFX25003KR4GGKWS	CFX 2.5M 10% 0/-250ppm 40 Au Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Size	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
CFX High value CrSi on Silicon	First 4 digits are significant figures of resistance	2 = 100 3 = 1000 4 = 10000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	C = +/-50 K = +/-100 M = +/-250 W = +/-350	3 = 30 x 30 4 = 40 x 40 5 = 55 x 55	G = Gold A = Aluminum	G = Gold N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model BCR

SAP Part Number	SAP Description
BCR50000FKAHWS	BCR 5K 1% 100ppm Al H WS
BCR12500KCGKWS	BCR 1.25K 10% 100 ppm Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Termination	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 14
BCR 20 x 20 size Back Contact Resistor	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20%	E = +/-25 C = +/-50 K = +/-100 M = +/-250 R = 0/-250 Q = +50/-250	G = Gold A = Aluminum	H = Class H K = Class K G = Class H, one lot L = Class K, one lot S = Schlumberger (Special) C = Commercial	WS = Waffle pack 100 min, 1 mult WT = Waffle pack 10 min, 1 mult FW = Full Wafer HW = Half Wafer ST = Diced on Tape CS = Danshui DW = Danshui EFI

Model PWA

SAP Part Number	SAP Description
PWA50000FKANHWS	PWA 5K 1% 100ppm Al None H WS
PWA12500KCGGKWS	PWA 1.25K 10% 100 ppm Au Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
PWA 30 x 45 size Power Pesistor	First 4 digits are significant figures of resistance	D = 0.0001 C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% H = 2.5% J = 5.0% K = 10%	E =+/-25 C =+/-50 K =+/-100 V = +/- 150 L = +/-200 M = +/-250 Z = +600/-100	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult ST = Diced on tape

Model PWB

SAP Part Number	SAP Description
PWB50000FKANHWS	PWB 5K 1% 100ppm Al None H WS
PWB12500KCGGKWS	PWB 1.25K 10% 100 ppm Au Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
PWB 70 x 70 size Power Pesistor	First 4 digits are significant figures of resistance	D = 0.0001 C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10	D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	C = +/-50 K = +/-100 M = +/-250 Z = +600/-100	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer ST = Diced on Tape

Model CTT

SAP Part Number	SAP Description
CTT50000KCKKGNHWS	CTT 5K 10% RT.25% 100 10 Au None H WS
CTT12500FBCJAGKWS	CTT 1.25K 1% RT.1% 50 5 Al Au K WS

Model	Resistance (R Total)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CTT 30 x 30 size Center Tapped Resistor TaN on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% U = User N = No	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = +/-2 J = +/-5 K = +/-10 N = No	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer ST = Diced on Tape

Model CTA

SAP Part Number	SAP Description
CTA50000KCKKGNHWS	CTA 5K 10% RT.25% 100 10 Au None H WS
CTA12500FBCJGGKWS	CTA 1.25K 1% RT.1% 50 5 Au Au K WS

Model	Resistance (R Total)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CTA 30 x 30 size Center Tapped Resistor NiCr on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% U = User N = No	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = +/-2 J = +/-5 K = +/-10 N = No	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer ST = Diced on Tape

Model CTB

SAP Part Number	SAP Description
CTB50000KCKKGNHWS	CTB 5K 10% RT.25% 100 10 Au None H WS
CTB12500FBCJGGKWS	CTB 1.25K 1% RT.1% 50 5 Au Au K WS

Model	Resistance (R Total)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CTB 50 x 50 size Center Tapped Resistor NiCr on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% U = User N = No	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = +/-2 J = +/-5 K = +/-10 N = No	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer ST = Diced on Tape

Model CCM

SAP Part Number	SAP Description
CCM50000KCKKGNHWS	CCM 5K 10% RT.25% 100 10 Au None H WS
CCM12500FBCJGGKWS	CCM 1.25K 1% RT.1% 50 5 Au Au K WS

Model	Resistance (R Total)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CCM 20x40 Center Tapped Resistor NiCr on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% U = User N = No	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = +/-2 J = +/-5 K = +/-10 N = No	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer ST = Diced on Tape

Model CCC

SAP Part Number	SAP Description
CCC50000KCKKGNHWS	CCC 5K 10% RT.25% 100 10 Au None H WS
CCC12500FBCJGGKWS	CCC 1.25K 1% RT.1% 50 5 Au Au K WS

Model	Resistance (R Total)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CCC 100 x 100 size Center Tapped Resistor NiCr on Alumina	First 4 digits are significant figures of resistance	A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% U = User N = No	E =+/-25 C =+/-50 K =+/-100 M = +/-250	G = +/-2 J = +/-5 K = +/-10 N = No	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer ST = Diced on Tape

Model CTR

SAP Part Number	SAP Description
CTR50000KCKKGNHWS	CTR 5K 10% RT.25% 100 10 Au None H WS
CTR12500FBCJGGKWS	CTR 1.25K 1% RT.1% 50 5 Au Au K WS

Model	Resistance (R Total)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CTR 30 x 30 size Center Tapped Resistor TaN on Silicon	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	A = 0.05% B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% H = 2.5% J = 5.0% K = 10% M = 20%	W = 0.01% V = 0.02% A = 0.05% B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% N = No	E =+/-25 C =+/-50 K =+/-100 L=+/-200 M = +/-250 R = 0/-250 S = 0/-100 Z = +600/-100 U = +100/-150 T = +300/-100 D = +250/-100	G = +/-2 J = +/-5 K = +/-10 N = No	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot S = Schlumberger (Special)	WS = Waffle pack 100 min, 1 mult WT = Waffle pack 10 min, 1 mult FW = Full Wafer HW = Half Wafer CS = Danshui Customer DW = Danshui EFI

Model CTN

SAP Part Number	SAP Description
CTN50000KCKKGNHWS	CTN 5K 10% RT.25% 100 10 Au None H WS
CTN12500FBCJGGKWS	CTN 1.25K 1% RT.1% 50 5 Au Au K WS

Model	Resistance (R Total)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CTN 30 x 30 size Center Tapped Resistor NiCr on Silicon	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% N = No	B = +/-10 E =+/-25 C =+/-50 K =+/-100 M = +/-250 Z = +600/-100	G = +/-2 J = +/-5 K = +/-10 N = No	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer

Model CTM

SAP Part Number	SAP Description
CTM50002KCKKGNHWS	CTM 500K 10% RT.25% 100 10 Au None H WS
CTM12502FBCJGGKWS	CTM 125K 1% RT.1% 50 5 Au Au K WS

Model	Resistance (R Total)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CTM 40 x 40 size Center Tapped , High Value Resistor TaN on Silicon	First 4 digits are significant figures of resistance	2 = 100 3 = 1000 4 = 10000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	C = 0.25% D = 0.5% F = 1.0% G = 2.0% N = No	C =+/-50 K =+/-100 R = 0/-250 P = 0/-350	J = +/-5 K = +/-10 N = No	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model CTQ

SAP Part Number	SAP Description
CTQ50000KCKKGNHWS	CTQ 5K 10% RT.25% 100 10 Au None H WS
CTQ12500FBCJGGKWS	CTQ 1.25K 1% RT.1% 50 5 Au Au K WS

Model	Resistance (R Total)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CTQ 30 x 30 size Center Tapped Resistor TaN on Quartz	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% N = No	E = +/-25 C = +/-50 K = +/-100 M = +/-250 Z = +600/-100	G = +/-2 J = +/-5 K = +/-10 N = No	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model CC7

SAP Part Number	SAP Description
CC750000KCKKGNHWS	CC7 5K 10% RT.25% 100 10 Au None H WS
CC712500FBCJGGKWS	CC7 1.25K 1% RT.1% 50 5 Au Au K WS

Model	Resistance (R Total)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CC7 30 x 30 size Center Tapped Resistor NiCr on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% U = User N = No	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = +/-2 J = +/-5 K = +/-10 N = No	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model CCB

SAP Part Number	SAP Description
CCB50000KCKKGNHWS	CCB 5K 10% RT.25% 100 10 Au None H WS
CCB12500FBCJGGKWS	CCB 1.25K 1% RT.1% 50 5 Au Au K WS

Model	Resistance (R Total)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
CCB 50 x 50 size Center Tapped Resistor NiCr on Alumina	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% U = User N = No	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = +/-2 J = +/-5 K = +/-10 N = No	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model SC7

SAP Part Number	SAP Description
SC750000KCKKGNHWS	SC7 5K 10% RT.25% 100 10 Au None H WS
SC712500FBCJGGKWS	SC7 1.25K 1% RT.1% 50 5 Au Au K WS

Model	Resistance (R Total)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
SC7 30 x 30 size Center Tapped Resistor NiCr on Silicon	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% U = User N = No	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = +/-2 J = +/-5 K = +/-10 N = No	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model SCB

SAP Part Number	SAP Description
SCB50000KCKKGNHWS	SCB 5K 10% RT.25% 100 10 Au None H WS
SCB12500FBCJGGKWS	SCB 1.25K 1% RT.1% 50 5 Au Au K WS

Model	Resistance (R Total)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
SCB 50 x 50 size Center Tapped Resistor NiCr on Silicon	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% U = User N = No	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = +/-2 J = +/-5 K = +/-10 N = No	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model STR

SAP Part Number	SAP Description
STR10031003KCKKSWS	STR 100K/100K 10% RT.25% 100 10 Std WS
STR10032003FFCJSWS	STR 100K/200K 1% RT1% 50 5 Std WS

Model	Resistor 1 Value	Resistor 1 Multiplier Code	Resistor 1 Value	Resistor 1 Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Special	Pack code
3 DIGITS	3 DIGITS	1 DIGIT	3 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 18
STR 30 x 30 size Center Tapped Resistor TaN on Silicon R1 < R2	First 3 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	First 3 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% N = No	E =+/-25 C =+/-50 K =+/-100 M = +/-250 S = 0/-100 Z = +600/-100 V = +/-150	G = +/-2 J = +/-5 K = +/-10 N = No	S = Std	WS = Waffle pack 100 min, 1 mult

Model NTR

SAP Part Number	SAP Description
NTR10031003KCKKSWS	NTR 100K/100K 10% RT.25% 100 10 Std WS
NTR10032003FFCJSWS	NTR 100K/200K 1% RT1% 50 5 Std WS

Model	Resistor 1 Value	Resistor 1 Multiplier Code	Resistor 1 Value	Resistor 1 Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Special	Pack code
3 DIGITS	3 DIGITS	1 DIGIT	3 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 18
NTR 30 x 30 size Center Tapped Resistor Isolated Bottom pad TaN on Silicon R1 < R2	First 3 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	First 3 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% N = No	E =+/-25 C =+/-50 K =+/-100 M = +/-250 S = 0/-100 Z = +600/-100	G = +/-2 J = +/-5 K = +/-10 N = No	S = Std	WS = Waffle pack 100 min, 1 mult

Model DTR

SAP Part Number	SAP Description
DTR10031003KCKKSWS	DTR 100K/100K 10% RT.25% 100 10 Std WS
DTR10032003FFCJSWS	DTR 100K/200K 1% RT1% 50 5 Std WS

Model	Resistor 1 Value	Resistor 1 Multiplier Code	Resistor 1 Value	Resistor 1 Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Special	Pack code
3 DIGITS	3 DIGITS	1 DIGIT	3 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 18
DTR 30 x 30 size Center Tapped Resistor Isolated Top pad TaN on Silicon R1 < R2	First 3 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	First 3 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% N = No	E =+/-25 C =+/-50 K =+/-100 M = +/-250 S = 0/-100 Z = +600/-100	G = +/-2 J = +/-5 K = +/-10 N = No	S = Std	WS = Waffle pack 100 min, 1 mult

Model MIB

SAP Part Number	SAP Description
MIB5000AFKSGNHWS	MIB 500 1% 100ppm Std Au None H WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
MIB 10 x 20 size Microwave Resistor TaN on Alumina	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1	F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20%	K = +-100 L = +/-200	M = Mic S = Std	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult CS = Danshui T0 = Tape & Reel 100min, 100mult T1 = Tape & Reel 1000min, 1000mult T3 = Tape & Reel 300min, 300mult T5 = Tape & Reel 500min, 500mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100min, 1mult

Model MIC

SAP Part Number	SAP Description
MIC5000BKKMSNHWS	MIC 50 10% 100ppm Mic SnPb None H WS
MIC5000AFCSTGKWS	MIC 500 1% 50ppm Std e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
MIC 20 x 40 size Microwave Resistor TaN on Alumina	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10	F = 1.0% G = 2.0% H = 2.5% J = 5.0% K = 10% M = 20%	E = +/-25 C = +/-50 K = /-100 L = +/-200 R = 0/-250	M = Mic S = Std	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult CS = Danshui T0 = Tape & Reel 100 min, 100 mult T1 = Tape & Reel 1000 min, 1000 mult T3 = Tape & Reel 300 min, 300 mult T5 = Tape & Reel 500 min, 500 mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100 min, 1 mult

Model MIF

SAP Part Number	SAP Description
MIF5000BKKMSNHWS	MIF 50 10% 100ppm Mic SnPb None H WS
MIF5000AFCSTGKWS	MIF 500 1% 50ppm Std e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
MIF 16 x 20 size Microwave Resistor TaN on Alumina	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1	F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20%	K = +/-100 L = +/-200 R = 0/-250	M = Mic S = Std	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model MID

SAP Part Number	SAP Description
MID5000BKKMSNHWS	MID 50 10% 100ppm Mic SnPb None H WS
MID5000AFCSTGKWS	MID 500 1% 50ppm Std e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
MID 50 x 50 size Microwave Resistor TaN on Alumina	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100	F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20%	E = +/-25 C = +/-50 K = +/-100 L = +/-200	M = Mic S = Std	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult CS = Danshui

Model SID

SAP Part Number	SAP Description
SID5000BKKMGNHWS	SID 50 10% 100ppm Mic Au None H WS
SID5000AFCSAGKWS	SID 500 1% 50ppm Std Al Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
SID 50 x 50 size Microwave Resistor TaN on Silicon	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100	F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20%	E = +/-25 C = +/-50 K = +/-100 L = +/-200	M = Mic S = Std	G = Gold A = Al	G = Gold N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model MIG

SAP Part Number	SAP Description
MIG5000BKKMSNHWS	MIG 50 10% 100ppm Mic SnPb None H WS
MIG5000AFCSTGKWS	MIG 500 1% 50ppm Std e1 Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
MIG 100x100 size Microwave Resistor TaN on Alumina	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100	F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20%	E = +/-25 C = +/-50 K = +/-100 L = +/-200	M = Mic S = Std	G = Au S = SnPb A = Al T = Pb-Free (e1)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model TMR

SAP Part Number	SAP Description
TMR2400AKKNHWS	TMR 240 10% 100ppm None H WS
TMR2400AFCGKWS	TMR 240 1% 50ppm Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 14
TMR 20 x 60 size Tapped Microwave Resistor TaN on Alumina	First 4 digits are significant figures of resistance	A = 0.1	F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20%	E =+/-25 C =+/-50 K =+/-100 L = +/-200	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult

Model NMGR

SAP Part Number	SAP Description
NMGR45000BFCGHWS	NMGR 0402 50 1% 50ppm Au H WS
NMGR61000AKKTHTS	NMGR 0603 100 10% 100ppm e1 H TS

Model	Case Size	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Termination	Visual Class	Pack code
4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
NMGR Non-magnetic resistor chip	4 = 0402 6 = 0603 8 = 0805 1 = 1206	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100	F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20%	E =+/-25 C =+/-50 K =+/-100	G = Au S = SnPb T = Pb-Free (e1)	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult TS = Tape & Reel 100 min 1 mult

Model NCAA

SAP Part Number	SAP Description
NCAA4700CKMAHWS	NCA 4.7 pF 10% MOS Al H WS
NCAA1000BKNGKWS	NCA 10 pF 10% MNOS Au K WS

Model	Capacitance (pF)	Capacitance Multiplier Code	Tolerance Code	Dielectric	Termination	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
NCAA 20 x 20 size Capacitor	First 4 digits are significant figures of capacitance	D = 0.0001 C = 0.001 B = 0.01 A = 0.1 0 = 1	D = +/-0.5 pF H = 2.5% J = 5.0% K = 10% M = 20%	M = MOS N = MNOS	G = Au A = Al	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer

Model NCBB

SAP Part Number	SAP Description
NCBB2200BKMAHWS	NCB 22 pF 10% MOS Al H WS
NCBB3300BKNGKWS	NCB 33 pF 10% MNOS Au K WS

Model	Capacitance (pF)	Capacitance Multiplier Code	Tolerance Code	Dielectric	Termination	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
NCBB 30 x 30 size Capacitor	First 4 digits are significant figures of capacitance	D = 0.0001 C = 0.001 B = 0.01 A = 0.1 0 = 1	H = 2.5% J = 5.0% K = 10% M = 20% D = ± 0.5 pF	M = MOS N = MNOS	G = Au A = Al	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer ST = Dice on Tape

Model NCCC

SAP Part Number	SAP Description
NCCC5600BKMAHWS	NCC 56 pF 10% MOS Al H WS
NCCC1100AKNGKWS	NCC 110 pF 10% MNOS Au K WS

Model	Capacitance (pF)	Capacitance Multiplier Code	Tolerance Code	Dielectric	Termination	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
NCCC 40 x 40 size Capacitor	First 4 digits are significant figures of capacitance	D = 0.0001 C = 0.001 B = 0.01 A = 0.1 0 = 1	H = 2.5% J = 5.0% K = 10% M = 20% D = ± 0.5 pF	M = MOS N = MNOS	G = Au A = Al	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer

Model NCDD

SAP Part Number	SAP Description
NCDD2200AKMAHWS	NCD 220 pF 10% MOS Al H WS
NCDD3300AKNGKWS	NCD 330 pF 10% MNOS Au K WS

Model	Capacitance (pF)	Capacitance Multiplier Code	Tolerance Code	Dielectric	Termination	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
NCDD 55 x 55 size Capacitor	First 4 digits are significant figures of capacitance	D = 0.0001 C = 0.001 B = 0.01 A = 0.1 0 = 1	H = 2.5% J = 5.0% K = 10% M = 20% D = ± 0.5 pF	M = MOS N = MNOS	G = Au A = Al	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer

Model NCEE

SAP Part Number	SAP Description
NCEE4700AKMAHWS	NCE 470 pF 10% MOS Al H WS
NCEE10000KNGKWS	NCE 1K pF10% MNOS Au K WS

Model	Capacitance (pF)	Capacitance Multiplier Code	Tolerance Code	Dielectric	Termination	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
NCEE 60 x 60 size Capacitor	First 4 digits are significant figures of capacitance	D = 0.0001 C = 0.001 B = 0.01 A = 0.1 0 = 1	H = 2.5% J = 5.0% K = 10% M = 20% D = ± 0.5 pF	M = MOS N = MNOS	G = Au A = Al	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer

Model CBA/CBB/CBC

SAP Part Number	SAP Description
CBA3750CMAHWS	CBA 3.75 pF 20% Al H WS
CBB1500BLGKWS	CBB 31 pF 25% Au K WS

Model	Type	Capacitance (pF)	Capacitance Multiplier Code	Tolerance Code	Termination	Visual Class	Pack code
2 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 13
CB Binary Capacitor	A = 19 x 30 B = 19 x 48 C = 44 x 44	First 4 digits are significant figures of capacitance	C = 0.001 B = 0.01	K = 10% M = 20% L = 25%	G = Au A = Al	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer

Model CMN-

SAP Part Number	SAP Description
CMN-011-0012WS	Custom Cap CMN-011-0012 WS

Model	Variation	Dash	Style	Pack code
4 DIGITS	3 DIGITS	1 DIGIT	4 DIGIT	2 DIGITS 14
CMN- Custom Capacitor	XXX	-	XXXX	WS = Waffle pack 100 min, 1 mult ST = diced on tape 1min, 1 mult

Model RCN-

SAP Part Number	SAP Description
RCN-011-0012WS	Custom Res/Cap RCN-011-0012 WS

Model	Variation	Dash	Style	Pack code
4 DIGITS	3 DIGITS	1 DIGIT	4 DIGIT	2 DIGITS 14
RCN- Custom Capacitor Resistor Network	XXX	-	XXXX	WS = Waffle pack 100 min, 1 mult ST = Diced on tape

Model CLA/CLB/CLC

SAP Part Number	SAP Description
CLA0830000FFKANHWS	CLA 8 Res 3K 1% 100ppm Al None H WS
CLB0620002KNCGGKWS	CLB 6 Res 200K 10% 50ppm Au Au K WS

Model	Type	# Resistors	Resistance	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	Termination	Back Metal	Visual Class	Pack code
CL Resistor Ta2N on Silicon	A = Isolated B = Bussed C = Chained	03 04 05 06 07 08 09 10 11 12	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% F = 1% N = None	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot S = Sclumberger (Special)	WS = Waffle pack 100 min, 1 mult

Model MTR

SAP Part Number	SAP Description
MTR24001KAMANHWS	MTR 24K 10% Form A 250 ppm Al None H WS
MTR24000JBKGNHWS	MTR 2.4K 5% Form B 100 ppm Au None H WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	Format	TCR (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 16
MTR 30 x 30 size Multi Tapped Resistor Array Ta2N on Silicon	First 4 digits are significant figures of resistance	A = 0.1 0 = 1 1 = 10 2 = 100	J = 5.0% K = 10% M = 20% L = 25%	A = Form A B = Form B	K =+/-100 M = +/-250 R = 0/-250	G = Au A = Al	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot M = Class H + element eval	WS = Waffle pack 100 min, 1 mult CS = Danshui Customer DW = Danshui EFI

Model MTT

SAP Part Number	SAP Description
MTT11002KMANHWS	MTT 110K 10% 250ppm Al None K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Termination	Back Metal	Visual Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
MTT 38 x 38 size Multi Tapped Resistor Array Ta2N on Silicon	First 4 digits are significant figures of resistance	A = 0.1 0 = 1 1 = 10 2 = 100	F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20% L = 25%	C =+/-50 K =+/-100 M = +/-250 R = 0/-250	G = Gold A = Aluminum	G = Gold N = None	H = Class H K = Class K G = Class H, one lot L = Class K, one lot	WS = Waffle pack 100 min, 1 mult FW = Full Wafer

Model CC4- Custom

SAP Part Number	SAP Description
CC4-00010001FWS	CC4- Custom 000 10K, 1% WS

Model	Process Code	Resistance	Resistance Multiplier Code	Tolerance Code	Pack code
4 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
CC1- CC2- CC3- CC4- CC5- CC6- CC8- SC3- CB1- CB3-	XXX	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100	A = 0.05% B = 0.1% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20% L = 25%	WS = Waffle pack 100 min, 1 mult T0 = Tape & Reel 100 min, 100 mult T1 = Tape & Reel 1000 min, 1000 mult T3 = Tape & Reel 300 min, 300 mult T5 = Tape & Reel 500 min, 500 mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100 min, 1 mult

Model CC1-, CC2-, CC3-, CC5-, CC6-, CC8-, SC3-, CB1-, CB3- Custom

SAP Part Number	SAP Description
CC1-00010001FWS	CC1- Custom 000 10K, 1% WS
CC2-00010001FWS	CC2- Custom 000 10K, 1% WS
CC3-00010001FWS	CC3- Custom 000 10K, 1% WS
CC5-00010001FWS	CC5- Custom 000 10K, 1% WS
CC6-00010001FWS	CC6- Custom 000 10K, 1% WS
CC8-00010001FWS	CC8- Custom 000 10K, 1% WS
SC3-00010001FWS	SC3- Custom 000 10K, 1% WS
CB1-00010001FWS	CB1- Custom 000 10K, 1% WS
CB3-00010001FWS	CB3- Custom 000 10K, 1% WS

Model	Process Code	Resistance	Resistance Multiplier Code	Tolerance Code	Pack code
4 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
CC1- CC2- CC3- CC5- CC6- CC8- SC3- CB1- CB3-	XXX	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100	A = 0.05% B = 0.1% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20% L = 25%	WS = Waffle pack 100 min, 1 mult

SFM Custom

SAP Part Number
SFM00010001FWS

SAP Description
SFM Custom 000 10K, 1% WS

Model	Process Code	Resistance	Resistance Multiplier Code	Tolerance Code	Pack code
3 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
SFM	XXX	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000 4 = 10000	B = 0.1% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20% L = 25%	WS = Waffle pack 100 min, 1 mult FW = Full Wafer ST = Diced on Tape DW = Wafer for Danshui CS = Tray from Danshui

Model CP1, SFC, SFP, SFN, SFX Custom

SAP Part Number	SAP Description
CP100010001FWS	CP1 Custom 000 10K, 1% WS
SFC00010001FWS	SFC Custom 000 10K, 1% WS
SFP00010001FWS	SFP Custom 000 10K, 1% WS
SFN00010001FWS	SFN Custom 000 10K, 1% WS
SF000X10002FWS	SFX Custom 000 100K, 1% WS

Model	Process Code	Resistance	Resistance Multiplier Code	Tolerance Code	Pack code
3 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
CP1 SFC SFP SFN SFX	XXX	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000 4 = 10000	B = 0.1% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20% L = 25%	WS = Waffle pack 100 min, 1 mult FW = Full Wafer

Model QFM, QFN, QFX, NFX, BCR, PWA, PWB Custom

SAP Part Number	SAP Description
QFM00010001FWS	QFM Custom 000 10K, 1% WS
QFN00010001FWS	QFN Custom 000 10K, 1% WS
QFX00010001FWS	QFX Custom 000 10K, 1% WS
NFX00010001FWS	NFX Custom 000 10K, 1% WS
BCR00010001FWS	BCR Custom 000 10K, 1% WS
PWA00010001FWS	PWA Custom 000 10K, 1% WS
PWB00010001FWS	PWB Custom 000 10K, 1% WS

Model	Process Code	Resistance	Resistance Multiplier Code	Tolerance Code	Pack code
3 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
QFM QFN QFX NFX BCR PWA PWB	XXX	First 4 digits are significant figures of resistance	D = 0.0001 C = 0.001 B – 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000 4 = 10000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20% L = 25%	WS = Waffle pack 100 min, 1 mult ST- Diced on tape CS = Tray from Danshui

Model CTT, CTA, CTB, CCM, CCC, CC7,CCB Custom

SAP Part Number	SAP Description
CTT00010001FWS	CTT Custom 000 10K, 1% WS
CTA00010001FWS	CTA Custom 000 10K, 1% WS
CTB00010001FWS	CTB Custom 000 10K, 1% WS
CCM00010001FWS	CCM Custom 000 10K, 1% WS
CCC00010001FWS	CCC Custom 000 10K, 1% WS
CC700010001FWS	CC7 Custom 000 10K, 1% WS
CCB00010001FWS	CCB Custom 000 10K, 1% WS

Model	Process Code	Resistance	Resistance Multiplier Code	Tolerance Code	Pack code
3 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
CTT CTA CTB CCM CC7 CCB	XXX	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20% L = 25%	WS = Waffle pack 100 min, 1 mult

Model CTR Custom

SAP Part Number
CTR00010001FWS

SAP Description
CTR Custom 000 10K, 1% WS

Model	Process Code	Resistance	Resistance Multiplier Code	Tolerance Code	Pack code
3 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
CTR	XXX	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer CS = Tray from Danshui

Model CTN, CTM, CTQ, RNA, SC7, SCB, STR, NTR, DTR, RTN Custom

SAP Part Number	SAP Description
CTN00010001FWS	CTN Custom 000 10K, 1% WS
CTM00010001FWS	CTM Custom 000 10K, 1% WS
CTQ00010001FWS	CTQ Custom 000 10K, 1% WS
RNA00010001FWS	RNA Custom 000 10K, 1% WS
SC700010001FWS	SC7 Custom 000 10K, 1% WS
SCB00010001FWS	SCB Custom 000 10K, 1% WS
STR00010001FWS	STR Custom 000 10K, 1% WS
NTR00010001FWS	NTR Custom 000 10K, 1% WS
DTR00010001FWS	DTR Custom 000 10K, 1% WS
RTN00010001FWS	RTN Custom 000 10K, 1% WS

Model	Process Code	Resistance	Resistance Multiplier Code	Tolerance Code	Pack code
3 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
CTN CTM CTQ RNA SC7 SCB STR NTR DTR RTN	XXX	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	WS = Waffle pack 100 min, 1 mult FW = Full Wafer

Model MIB, MIC, MIF, MID, SID, MIG Custom

SAP Part Number	SAP Description
MIB00010001FWS	MIB Custom 000 10K, 1% WS
MIC00010001FWS	MIC Custom 000 10K, 1% WS
MIF00010001FWS	MIF Custom 000 10K, 1% WS
MID00010001FWS	MID Custom 000 10K, 1% WS
SID00010001FWS	SID Custom 000 10K, 1% WS
MIG00010001FWS	MIG Custom 000 10K, 1% WS

Model	Process Code	Resistance	Resistance Multiplier Code	Tolerance Code	Pack code
3 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
MIB MIC MIF MID SID MIG	XXX	First 4 digits are significant figures of resistance	D = 0.0001 C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100	F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20% L = 25%	WS = Waffle pack 100 min, 1 mult T0 = Tape & Reel 100 min, 100 mult T1 = Tape & Reel 1000 min, 1000 mult T3 = Tape & Reel 300 min, 300 mult T5 = Tape & Reel 500 min, 500 mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100 min, 1 mult

Model NCAA, NCBB, NCCC, NCDD, NCEE Custom

SAP Part Number	SAP Description
NCAA0001000BJWS	NCA Custom 000 10 pF, 5% WS
NCBB0005000BKWS	NCB Custom 000 50 pF, 10% WS
NCCC0001000AKWS	NCC Custom 000 100 pF, 10% WS
NCDD0003300AKWS	NCD Custom 000 330 pF, 10% WS
NCEE00010000KWS	NCE Custom 000 1K pF, 10% WS

Model	Process Code	Capacitance	Capacitance Multiplier Code	Tolerance Code	Pack code
4 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
NCAA NCBB NCCC NCDD NCEE	XXX	First 4 digits are significant figures of capacitance	A = 0.1 0 = 1 1 = 10 2 = 100	F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20% L = 25%	WS = Waffle pack 100 min, 1 mult

Model CBA, CBB, CBC, CMC, CBD Custom

SAP Part Number	SAP Description
CBA1101500BKWS	CBA Custom 110 15 pF, 10% WS
CBB1105000BKWS	CBB Custom 110 50 pF, 10% WS

Model	Process Code	Capacitance	Capacitance Multiplier Code	Tolerance Code	Pack code
3 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
CBA CBB CBC CMC CBD	XXX	First 4 digits are significant figures of capacitance	C = 0.001 B = 0.01	F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20% L = 25%	WS = Waffle pack 100 min, 1 mult FW = Full Wafer

Model CLA/CLB/CLC Custom

SAP Part Number	SAP Description
CLA0065000BKWS	CL Custom A 006 50 ohm, 10% WS
CLB0065000BKWS	CL Custom B 006 50 ohm, 10% WS
CLC0065000BKWS	CL Custom C 006 50 ohm, 10% WS

Model	Type	Process Code	Resistance	Resistance Multiplier Code	Tolerance Code	Pack code
2 DIGITS	1 DIGIT	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
CL	A = Isolated B = Bussed C = Chained	XXX	First 4 digits are significant figures of capacitance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20% L = 25%	WS = Waffle pack 100 min, 1 mult

Model MTR, MTT, TMR

SAP Part Number	SAP Description
MTR05180000KWS	MTR Custom 051 8K, 10% WS
MTT00020001JWS	MTT Custom 000 20K, 5% WS
TMR0002400AKWS	TMR Custom 000 240, 10% WS

Model	Process Code	Resistance	Resistance Multiplier Code	Tolerance Code	Pack code
3 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
MTR MTT TMR	XXX	First 4 digits are significant figures of capacitance	C=0.001 B=0.01 A = 0.1 0 = 1 1 = 10 2 = 100	F = 1% G = 2.0% J = 5.0% K = 10% M = 20% L = 25%	WS = Waffle pack 100 min, 1 mult CS = Tray from Danshui

Model PSC

SAP Part Number	SAP Description
PSC4000CL4A5GNHWS	PSC 4Nh 25% 45x45x5 Au None H WS

Model	Inductance (nH)	Inductance Multiplier Code	Tolerance Code	Size	Substrate	Thickness (mil)	Termination	Special	Test Class	Pack code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	**1 DIGIT**	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS
PSC	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10% L = 25% M = 20%	4 = 45x45	A = Alumina S = Silicon Q = Quartz F = Ferrite	5 = 5 1 = 10 2 = 20	G = Au A = Al	G = Au N = None	H = Class H K = Class K Q tested No Test 100% test Sample test	W1 = Waffle Pack 1 min, 1 mult T0 = Tape & Reel 100 min, 100 mult T1 = Tape & Reel 1000 min, 1000 mult T3 = Tape & Reel 300 min, 300 mult T5 = Tape & Reel 500 min, 500 mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100 min, 1 mult

Model RFLW

SAP Part Number	SAP Description
RFLW3N2000BMNT0	RFLW 30X30 NO PASS 20 Nh 20% T0

Model	Size	Passivation	Inductance (nH)	Inductance Multiplier Code	Tolerance Code	Special	Pack code
4 DIGITS	**1 DIGIT**	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS
RFLW	3 = 30 x 30 5 = 50 x 50	S = Silicon Nitride N = None	First 4 digits are significant figures of inductance	C = 0.001 B = 0.01 A = 0.1	K = 10% M = 20% L = 25%	N = None	WS = WAFFLE 100 Min 1 Mult CS = Danshui T0 = Tape & Reel 100 min, 100 mult T1 = Tape & Reel 1000 min, 1000 mult T3 = Tape & Reel 300 min, 300 mult T5 = Tape & Reel 500 min, 500 mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100 min, 1 mult

Model NET

SAP Part Number
NET0111342WS

SAP Description
Custom Res NET0111342 WS

Model	Variation	Style	Pack code
3 DIGITS	3 DIGITS	4 DIGIT	2 DIGITS 12
NET Custom Resistor Network	XXX	XXXX	WS = Waffle pack 100 min, 1 mult FW = Full Wafer ST = Diced on Tape

Model SSUB

SAP Part Number
SSUB0036011W1

SAP Description
Custom SSUB0036011 W1

Model	Variation	Style	Pack code
4 DIGITS	3 DIGITS	4 DIGIT	2 DIGITS 13
SSUB Custom Patterned Silicon Substrate	XXX	XXXX	W1 = Waffle Pack 1 min, 1 mult FW = Full Wafer

Model SLR

SAP Part Number
SLRC410001FFCGGW1

SAP Description
SLRC 4 RES 10K 1% RT1% 50ppm 2ppm Au W1

Model	Width (mil)	Number Resistors	Resistance	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	TC Track (ppm/C)	Termination	Pack code
3 DIGITS	1 DIGIT	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
SLR Resistor Carrier NiCr on Alumina	C = 100 N = 150 M = 210	2 = 2 3 = 3 4 = 4 7 = 7 8 = 8	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	W = 0.01% V = 0.02% A = 0.05% B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0%	B = +/-10 E = +/-25 C = +/-50 K = +/-100 M = +/-250	F = +/-1 G = +/-2 H = +/-3 J = +/-5 K = +/-10	G = Au S = SnPb A = Al T = Pb-Free (e1)	W1 = Waffle Pack 1 min, 1 mult WS = Waffle pack 100 min, 1 mult T0 = Tape & Reel 100 min, 100 mult T1 = Tape & Reel 1000 min, 1000 mult T3 = Tape & Reel 300 min, 300 mult T5 = Tape & Reel 500 min, 500 mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100 min, 1 mult

Model LSUB

SAP Part Number	SAP Description
LSUBNSWS	LSUB AlN Std WS

Model	Substrate	Surface	Pack code
4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 17
LSUB Ceramic Submount for High Power LED	N = AlN A = Alumina (99.6%) T = Alumina (96%)	S = Standard O = Offset A = AuSn	PL = Plate SC = Scribed plate ST = Diced on tape WS = Waffle pack, 100 min, 1 mult

Model INT

SAP Part Number
INT201234-01Q

SAP Description
Interconnect Custom 201234-01Q

Model	Internal P/N	Internal Rev	Variant
3 DIGITS	7 DIGITS	2 DIGITS	1 DIGIT
INT INTERCONNECT SUBSTRATE	XXXXXX-	XX	Q = Thru Hole V = Filled Via C = Conductor A = AlN B = BeO K = Zirconia N = Resistor Z = SLR

Model MTLP

SAP Part Number	SAP Description
MTLP	0.030” mil wide transmission line with tuning pads

Model	Length	Surface finish	Packaging code
MTLP Microstrip transmission line with tuning pads	XXX 010 015 020 055 090 300	F = As-fired P = polished	WS = 100 mult, one min waffle pack

Model PSS

SAP Part Number	SAP Description
PSS205402-02N	Patterned Substrate Custom 205402-02N

Model	Internal P/N	Internal Rev	Variant
3 DIGITS	7 DIGITS	2 DIGITS	1 DIGIT
PSS PATTERNED SUBSTRATE	XXXXXX-	XX	A = AlN B = BeO C = Conductor F = Special N = Res Net Y = Solder Bump P = Chip

Model SPF2

SAP Part Number
SPF208053-00C

SAP Description
Specialty Films Custom 105687-000

Model	Customr P/N	Internal Rev	Variant
4 DIGITS	5 DIGITs	2 DIGITS	1 DIGIT
SPF2 SPECIALTY FILM	XXXXX-	XX	A = AlN B = BeO C = Conductor F = Ferrite/Garnet K = Zirconia

Model EWR

SAP Part Number	SAP Description
EWR1524	Custom Interconnect EWR1524
EWR3520A	Custom Interconnect EWR3520A

Model	Customer P/N
3 DIGITS	4 or 5 DIGITS
EWR CUSTOM INTERCONNET SUBSTRATE	XXXXX

Model EWR

SAP Part Number	SAP Description
EWR1524-00N	Custom Interconnect EWR1524-00N
EWR4256-00Q	Custom Interconnect EWR4256-00Q

Model	Customer P/N	Internal Rev	Variant
3 DIGITS	5 DIGITS	2 DIGITS	1 DIGIT
EWR CUSTOM INTERCONNET SUBSTRATE	XXXX-	XX	A = AlN B = BeO C = Conductor 0 = Coating F = Ferrite/Garnet N = Resistor Q = Thru Hole

Model TF

SAP Part Number	SAP Description
TF1235	Custom TF metalized substrate TF1235

Model	CUSTOM P/N
2 DIGITS	4 DIGIT
TF METALIZED SUBSTRATE	XXXX

Model RFD

SAP Part Number	SAP Description
RFD207892-00Q	RFD Custom RFD207892-00Q

Model	Customr P/N	Internal Rev	Variant
3 DIGITS	7 DIGITS	2 DIGITS	1 DIGIT
RFD RF DESIGN CUSTOM	XXXXXX-	XX	A = AlN B = BeO C = Conductor F = Ferrite/Garnet N = Res Net Q = Thru Hole V = Filled Via Y = Solder Bump

Model PIZ

SAP Part Number
PIZ2255

SAP Description
Prototypes Custom PIZ2255

Model	Custom P/N
3 DIGITS	4 or 5 DIGITS
PIZ PROTOTYPE SUBSTRATE	XXXXX

Model RFCS – Part is Obsolete

SAP Part Number **SAP Description**
RFCS04021000BJGTS **RFCS 10 pF, 5%, 0402, Gold, TS**

Model	Size	Capacitance	Capacitance Multiplier Code	Tolerance Code	Termination	Pack code
4 DIGITS	4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
RFCS High frequency capacitor – surface mount	0402	First 4 digits are significant figures of resistance	D = 0.0001 C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100	G = 2.0% J = 5.0% K = 10% B = +/- 0.1 pF M = 20% L = 25%	G = Gold	W1 = Waffle Pack 1 min, 1 mult WS = Waffle pack 100 min, 1 mult T0 = Tape & Reel 100 min, 100 mult T1 = Tape & Reel 1000 min, 1000 mult T3 = Tape & Reel 300 min, 300 mult T5 = Tape & Reel 500 min, 500 mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100 min, 1 mult FW = Full Wafer

Model EHPC - Product is Obsolete

SAP Part Number	SAP Description
EHPC0402A100FWXT5	EHPC 0402 10pF 1% NoPb 25V T5
EHPC0402A4R7FWXT5	EHPC 0402 4.7pF 1% NoPb 25V T5
EHPC0402A101FWXT5	EHPC 0402 100pF 1% NoPb 25V T5

Model	Size	Type	Capacitance	Tolerance Code	Termination	Voltage	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	3 DIGITS	1 DIGIT	1 DIGIT	1 Digit	2 DIGITS
EHPC High frequency capacitor – surface mount	0402	A	First 2 digits are significant figures of capacitance	F = 1% G = 2.0% J = 5.0% K = 10%	X = Tin/Lead W = Lead free terminations	1 = 6V Z = 10V Y = 16V X = 25V M = 50V L = 100 V	T0 = 10,000 pcs tape & reel T5 = 5,000 pcs tape & reel T1 = 1,000 pcs tape & reel T5 = 5000 min, 1 mult

Model MSFM

SAP Part Number	SAP Description
MSFM50000FKANHWS	MSFM 5K 1% 100ppm Al None H WS
MSFM12500KCGGKWS	MSFM 1.25K 10% 100 ppm Au Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Termination	Back Metal	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
MSFM 15 x 15 size Ta2N on Silicon	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% H = 2.5% J = 5.0% K = 10%	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = Au A = Al	G = Au N = None	H = Class H K = Class K C = Commerical	WS = Waffle pack 100 min, 1 mult ST = Diced on tape DW = Wafer for Danshui CS = Tray from Danshui

Model TSFM

SAP Part Number	SAP Description
TSFM50000FKGNHWS	TSFM 5K 1% 100ppm Au None H WS
TSFM12500KCGGKWS	TSFM 1.25K 10% 100 ppm Au Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Termination	Back Metal	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
TSFM 20 x 20 size Ta2N on Silicon	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% H = 2.5% J = 5.0% K = 10%	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = Au	G = Au N = None	H = Class H K = Class K	WS = Waffle pack 100 min, 1 mult

Model TCTR

SAP Part Number	SAP Description
TCTR50000FKGNHWS	TCTR 5K 1% 100ppm Au None H WS
TCTR12500KCGGKWS	TCTR 1.25K 10% 100 ppm Au Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Termination	Back Metal	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
TCTR 15 x 15 size Ta2N on Silicon	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% H = 2.5% J = 5.0% K = 10%	E = +/-25 C = +/-50 K = +/-100 M = +/-250	G = Au	G = Au N = None	H = Class H K = Class K	WS = Waffle pack 100 min, 1 mult

Model NCAT/NCBT/NCCT/NCDT/NCET

SAP Part Number	SAP Description
NCAT4700CKMAHWS	NCAT 4.7 pF 10% MOS Al H WS
NCDT3300AKNGKWS	NCDT 330 pF 10% MNOS Au K WS

Vishay EFI Miscellaneous /Charges

Model	Capacitance (pF)	Capacitance Multiplier Code	Tolerance Code	Dielectric	Termination	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
NCAT NCBT NCCT NCDT NCET	First 4 digits are significant figures of capacitance	D = 0.0001 C = 0.001 B = 0.01 A = 0.1 0 = 1	D = +/-0.5 pF H = 2.5% J = 5.0% K = 10% M = 20%	M = MOS N = MNOS	G = Au A = Al	H = Class H K = Class K	WS = Waffle pack 100 min, 1 mult

Model NCAT, NCBT, NCCT, NCDT, NCET Custom

SAP Part Number	SAP Description
NCAT0001000BJWS	NCAT Custom 000 10 pF, 5% WS
NCBT0005000BKWS	NCBT Custom 000 50 pF, 10% WS
NCCT0001000AKWS	NCCT Custom 000 100 pF, 10% WS
NCDT0003300AKWS	NCDT Custom 000 330 pF, 10% WS
NCET00010000KWS	NCET Custom 000 1K pF, 10% WS

Model	Process Code	Capacitance	Capacitance Multiplier Code	Tolerance Code	Pack code
4 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
NCAT NCBT NCCT NCDT NCET	XXX	First 4 digits are significant figures of capacitance	D = 0.0001 C = 0.001 B = 0.01 A = 0.1 0 = 1	D = +/-0.5 pF H = 2.5% J = 5.0% K = 10% M = 20%	WS = Waffle pack 100 min, 1 mult

Model HVRD – **Product is Obsolete**

SAP Part Number	SAP Description
HVRD10048201BBCFT1	HVRD 1M 8.2K 0.1%, 0.1% ratio, 50 ppm, Flip chip, T1
HVRD10048201BBCWT1	HVRD 1M 8.2K 0.1%, 0.1% ratio, 50 ppm, Wrap, T1

Model	Resistor 1 Value	Resistor 1 Multiplier Code	Resistor 1 Value	Resistor 1 Multiplier Code	Tolerance Code	Ratio Tolerance	TCR (ppm/C)	Terminal	Pack code
4 DIGITS	3 DIGITS	1 DIGIT	3 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 18
HVRD High Voltage resistor divider R1 < <R2	First 3 digits are significant figures of resistance	3 = 1000 4 = 10000	First 3 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	B = 0.1% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	B = 0.1% D = 0.5% F = 1.0% G = 2.0% N = No	C =+/-50 K =+/-100	F = Flip chip W = Wrap	T5 = 5,000 pcs tape & reel T1 = 1,000 pcs tape & reel WS = waffle pack

Model SDWP

SAP Part Number	SAP Description
SDWP207892-00Q	SDWP Custom SDWP207892-00Q

Model	Customr P/N	Internal Rev	Variant
4 DIGITS	7 DIGITS	2 DIGITS	1 DIGIT
SDWP SIDE WALL PATTERN	XXXXXX-	XX	A = AlN B = BeO C = Conductor F = Ferrite/Garnet Q = Thru Hole

Model BRCP

SAP Part Number	SAP Description
BRCPA1000BKGCST	BRCP 3mm 10pf 10% Au C ST
BRCPB2500BJGCWS	BRCP 6mm 25pf 5% Au C WS

Model	Size	Capacitance (pF)	Capacitance Multiplier Code	Tolerance Code	Termination	Visual Class	Pack code
4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
BRCP Bar Capacitor	A = 3mm x 1 mm B = 6mm x 1 mm	First 4 digits are significant figures of capacitance	C = 0.001 B = 0.01 A = 0.1	J = 5% K = 10% M = 20% L = 25%	G = Au A = Al	C = Commercial E = Electrical test only H = Class H K = Class K	WS = Waffle pack 100 min, 1 mult FW = Full Wafer HW = Half Wafer ST = Diced on tape

Model BRCP

SAP Part Number	SAP Description
BRCPAKIT01	BRCPA Design kit 01
BRCPBKIT02	BRCPB Design kit 02

SAP Part Number			
Model	Size	Kit	Type
4 DIGITS	1 DIGIT	3 DIGIT	2 DIGIT
BRCP Bar Capacitor	A = 3mm x 1 mm B = 6mm x 1 mm	KIT	XX

Model IGBR

SAP Part Number	SAP Description
IGBRB3000CJOPCST	IGBR 1MM 3 OHM, 5%, 300 PPM, PD, COM, TAPE

Model	Size	Resistance (ohms)	Resistance Multiplier Code	Tolerance Code	TCR	Backside Termination	Visual Class	Pack code
4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
IGBR Gate Resistor	A = 20 x 20 B = 40 x 40 C = 60 x 60 D = 80 x 80	First 4 digits are significant figures of capacitance	C = 0.001 B = 0.01 A = 0.1	F = 1% J = 5% K = 10% M = 20% L = 25%	A= +/-1000 J = +/-500 W = +/-350 O = +/-300 M = +/-250	P = TiW/Pd/Au N = TiW/Ni/Au T = TiW/Au/Ni/Au	C = Commercial E = Electrical test only H = Class H K = Class K	WS = Waffle pack 100 min, 1 mult CS = Danshui FW = Full Wafer (3”) ST = Diced on tape T0 = Tape & Reel 100 min, 100 mult T1 = Tape & Reel 1000 min, 1000 mult T3 = Tape & Reel 300 min, 300 mult T5 = Tape & Reel 500 min, 500 mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100 min, 1 mult

Model EFISFM

SAP Part Number	SAP Description
EFISFM26610003F	SFM Danshui, 3”, 1M, 1%

Model	MPS	Resistance (ohms)	Resistance Multiplier Code	Tolerance
6 DIGITS	3 DIGITS	4 DIGITs		1 DIGIT
EFISFM SFM from Danshui	266 = 3” 267 = 5”	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	F = 1%

Model SPF1

SAP Part Number	SAP Description
SPF1AA02021A11BX	SPF1 Al2O3 As-Fired 20 mils x 20 mils 10 mils Thick NiCr 25 Ω/sq Front: TiW / Au (50 µ" min.) Back: TiW / Au (50 µ" min.) BX

Model	Material	Finish	Plate Size X (mils)	Plate Size Y (mils)	Thickness (mils)	Resistor	Metal Front	Metal Back	Pack code
4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS	2 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS
SPF1 Specialty Films 1	A = Al2O3 B = BeO N = AlN	A = As-Fired L = Lapped P = Polished	02 = 20 05 = 50 10 = 100 20 = 200 50 = 500 11 = 1000 21 = 2000 45 = 4500	02 = 20 05 = 50 10 = 100 20 = 200 50 = 500 11 = 1000 21 = 2000 45 = 4500	1 = 10 2 = 15 3 = 20 4 = 25 5 = 50	A = NiCr 25 B = NiCr 50 C = NiCr 100 D = NiCr 200 1 = TaN 25 2 = TaN 50 3 = TaN 75	1 = TiW/Au 50 2 = TiW/Au 100 3 = TiW/Au/Ni/Au 50 4 = TiW/Au/Ni/Au 100 5 = TiW/Pd/Au 50 6 = TiW/Pd/Au 100 7 = Cr/Cu/Au 8 = Cr/Cu/Ni/Au	1 = TiW/Au 50 2 = TiW/Au 100 3 = TiW/Au/Ni/Au 50 4 = TiW/Au/Ni/Au 100 5 = TiW/Pd/Au 50 6 = TiW/Pd/Au 100 7 = Cr/Cu/Au 8 = Cr/Cu/Ni/Au	WS = Waffle pack 1 min, 1 mult BX = Box 1 min, 1 mult

Model UMIB -- OBSOLETE

SAP Part Number	SAP Description
UMIB5000BKK,SNHWS	UMIB 50 10% 100ppm Mic SnPb None H WS
UMIB5000AFCSTGKWS	UMIB 500 1% 50ppm Std el Au K WS

Model	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Back Metal	Visual Class	Pack Code
3 DIGITS	4 DIGITS	1 DIGIT	1 DIGITS	1 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS
MIB 14 x 10 size Microwave Resistor TaN on Alumina	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1	F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20%	K = +/- 100 L = +/- 200	M = Mic S = Std	G = Au S = SnPb A = Al T = Pb-Free (el)	G = Au N = None	H = Class H K = Class K G = Class H, one lot L = Class L, one lot	WS = Waffle pack 1 min, 1 mult

Model HFWP

SAP Part Number	SAP Description
HFWPAB5000AFKMNHWS	HFWP 0402 Alumina 500 1% 100ppm Microwave Trim Ni/Au H WS
HFWPNC5000AJCSPKWS	HFWP 0603 AlN 500 5% 50ppm Standard Trim Pd/Au K WS

Model	Substrate	Case Size	Resistance	Resistance Multiplier Code	Tolerance Code	TCR (ppm/C)	Trim Style	Termination	Visual Class	Pack code
4 DIGITS	1 DIGIT	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 18
HFWP Half Wrap Resistor TaN	A = Alumina N = AlN B = BeO	A = 0201 B = 0402 C = 0603 D = 0805 E = 1005 F = 1206	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10%	E = +/- 25 C = +/- 50 K = +- 100 V = +/- 150 M = +/- 250	M = Microwave S = Standard	N = Ni/Au P = Pd/Au	H = Class H K = Class K	WS = Waffle pack 100 min, 1 mult

Model IGBA

SAP Part Number
IGBAC3000CJOPCST

SAP Description
IGBA 60 x 60 3 OHM, 5%, 300 PPM, PD, COM, TAPE

Model	Size	Resistance (ohms)	Resistance Multiplier Code	Tolerance Code	TCR	Backside Termination	Visual Class	Pack code
4 DIGITS	1 DIGIT	4 DIGITS	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 15
IGBA Gate Resistor (Automotive)	A = 20 x 20 B = 40 x 40 C = 60 x 60 D = 80 x 80	First 4 digits are significant figures of capacitance	C = 0.001 B = 0.01 A = 0.1	F = 1% J = 5% K = 10% M = 20% L = 25%	A= +/- 1000 J = +/- 500 W = +/- 350 O = +/- 300 M = +/- 250	P = TiW/Pd/Au N = TiW/Ni/Au T = TiW/Au/Ni/Au	C = Commercial E = Electrical test only H = Class H K = Class K	WS = Waffle pack 100 min, 1 mult FW = Full Wafer (3”) ST = Diced on tape T0 = Tape & Reel 100 min, 100 mult T1 = Tape & Reel 1000 min, 1000 mult T3 = Tape & Reel 300 min, 300 mult T5 = Tape & Reel 500 min, 500 mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100 min, 1 mult

Model BCTR

SAP Part Number	SAP Description
BCTR1000AFFKNAHWS	BCTR 100OHM, 1%, 1%, 100PPM, NO TRACK, AL, CLASS H, WAFFLE

Model	Resistance (ohms)	Resistance Multiplier Code	Tolerance Code	Ratio Tolerance Code	TCR	TC Track	Termination	Visual Class	Pack code
4 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	1 Digit	1 DIGIT	1 DIGIT	1 DIGIT	1 DIGIT	2 DIGITS 17
BCTR Back Contact Voltage divider Resistor	First 4 digits are significant figures of capacitance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000	A = 0.05% B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% H = 2.5% J = 5.0% K = 10% M = 20%	W = 0.01% V = 0.02% A = 0.05% B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% N = No	E =+/-25 C =+/-50 K =+/-100 V = +/- 150 L=+/-200 M = +/-250 R = 0/-250 S = 0/-100 Z = +600/-100 U = +100/-150 T = +300/-100 D = +250/-100	G = +/-2 J = +/-5 K = +/-10 N = No	G = Au A = Al	H = Class H K = Class K	WS = Waffle pack 100 min, 1 mult FW = Full Wafer (3”) ST = Diced on tape T0 = Tape & Reel 100 min, 100 mult T1 = Tape & Reel 1000 min, 1000 mult T3 = Tape & Reel 300 min, 300 mult T5 = Tape & Reel 500 min, 500 mult TF = Tape & Reel Full Reel 3000 TS = Tape & Reel 100 min, 1 mult

MSFM Custom

SAP Part Number	SAP Description
MSFM30010001FWS	MSFM Custom 300 10K, 1% WS

Model	Process Code	Resistance	Resistance Multiplier Code	Tolerance Code	Pack code
4 DIGITS	3 DIGITS	4 DIGITS	1 DIGIT	1 DIGIT	2 DIGITS 15
MSFM	XXX	First 4 digits are significant figures of resistance	C = 0.001 B = 0.01 A = 0.1 0 = 1 1 = 10 2 = 100 3 = 1000 4 = 10000	B = 0.1% D = 0.5% F = 1.0% G = 2.0% J = 5.0% K = 10% M = 20% L = 25%	WS = Waffle pack 100 min, 1 mult FW = Full Wafer ST = Diced on Tape DW = Wafer for Danshui CS = Tray from Danshui

Model VEFI Sample Kits

SAP Part Number	SAP Description
VEFIHIPWKIT	High Power Sample Kit
VEFIRFHFKIT	RF/High Frequency Sample Kit
VEFIIGBRKIT	IGBR Sample Kit
VEFISMSZKIT	Small Size Sample Kit
VEFISTRTKIT	Starter Sample Kit

SAP Part Number **SAP Description**

Model	Size	Kit
4 DIGITS	4 DIGITs	3 DIGIT
VEFI	HIPW – High Power RFHF – RF-High Frequency IGBR – IGBR SMSZ – Small Size STRT - Starter	KIT

LOT CHARGE	DESCRIPTION		
7 DIGITS	8 to 10 DIGITS		
LOTCHG -	VEFINREH	=	CHARGE FOR VEFI NRE HYBRID (NS01S)
	VEFINRES	=	CHARGE FOR VEFI NRE SUBSTRATE (NS01C)
	VEFITESTH	=	CHARGE FOR VEFI TEST HYBRID (NS02S)
	VEFITESTS	=	CHARGE FOR VEFI TEST SUBSTRATE (NS02C)
	VEFISAMPH	=	CHARGE FOR VEFI TEST SAMPLES (NS03S
	VEFISAMPS	=	CHARGE FOR VEFI TEST SAMPLES (NS03C)
	VEFIDATAH	=	CHARGE FOR VEFI DATA (NS04S
	VEFIDATAS	=	CHARGE FOR VEFI DATA (NS04C)
	VEFICANH	=	CHARGE FOR VEFI CANCELLATION (NS06S)
	VEFICANS	=	CHARGE FOR VEFI CANCELLATION (NS06C)
	VEFISORH	=	CHARGE FOR VEFI SOURCE INSPECTION (NS08S)
	VEFISORS	=	CHARGE FOR VEFI SOURCE INSPECTION (NS08C)
	VEFIINCH	=	CHARGE FOR VEFI INTERCOMPANY (NS09S)
	VEFIINCS	=	CHARGE FOR VEFI INTERCOMPANY (NS09C)
	VEFIMISCH	=	CHARGE FOR VEFI INTERCOMPANY (NS05S)
	VEFIMISCS	=	CHARGE FOR VEFI INTERCOMPANY (NS05C)
	VEFIFAIRH	=	CHARGE FOR VEFI NRE HYBRID (NS10S)
	VEFIFAIRS	=	CHARGE FOR VEFI NRE SUBSTRATE (NS10C)
	VEFITH150	=	$150.00 CHARGE FOR VEFI TEST HYBRID
	VEFITH400	=	$400.00 CHARGE FOR VEFI TEST HYBRID
	VEFITH125	=	VEFI TEST HYBRID 125
	VEFITH250	=	VEFI TEST HYBRID 250
	VEFITS125	=	VEFI TEST SUBST 125
	VEFITS150	=	VEFI TEST SUBST 150
	VEFITS250	=	VEFI TEST SUBST 250
	VEFITNRES	=	VEFI NRE SUBST TESTING
	VEFIFAH500	=	VEFI FIRST ARTICLE HYBRID 500
	VEFIFAH1000	=	VEFI FIRST ARTICLE HYBRID 1000
	VEFIFAH2000	=	VEFI FIRST ARTICLE HYBRID 2000
	VEFIFAS500	=	VEFI FIRST ARTICLE SUBSTRATE 500
	VEFIFAS1000	=	VEFI FIRST ARTICLE SUBSTRATE 1000
	VEFIFAS2000	=	VEFI FIRST ARTICLE SUBSTRATE 2000
	VEFIMH	=	VEFI MISC CHIP SALES
	VEFIRETST	=	VEFI RETURNED FOR TEST
	VEFIRTESTH	=	VEFI RETURNED FOR TEST – CLASS H
	VEFIRTESTK	=	VEFI RETURNED FOR TEST – CLASS K