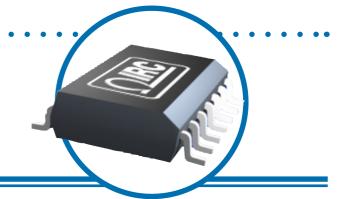
Surface Mount SOIC Resistor Networks



SOIC Series

- Tested for COTS applications
- Both narrow and wide body versions available
- Standard JEDEC 8, 14, 16, and 20 pin packages
- Ultra-stable TaNSil[®] resistors on silicon substrates
- RoHS compliant and Sn/Pb terminations available



IRC's TaNSil[®] SOIC resistor networks are the perfect solution for high volume applications that demand a small wiring board footprint. The .050" lead spacing provides higher lead density, increased component count, lower resistor cost, and high reliability.

The tantalum nitride film system on silicon provides precision tolerance, exceptional TCR tracking, low cost and miniature package. Excellent performance in harsh, humid environments is a trademark of IRC's self-passivating TaNSil[®] resistor film.

The SOIC series is ideally suited for the latest surface mount assembly techniques and each lead can be 100% visually inspected. The compliant gull wing leads relieve thermal expansion and contraction stresses created by soldering and temperature excursions.

For applications requiring high performance resistor networks in a low cost, surface mount package, specify IRC SOIC resistor networks.

Electrical Data

Resistance Range	$10-250 K\Omega$		
Absolute Tolerance	To ±0.1%		
Ratio Tolerance to R1	To ±0.05%		
Absolute TCR	To ±25ppm/°C		
Tracking TCR	To ±5ppm/°C		
Element Power Rating @ 70°C Isolated Schematic Bussed Schematic	100mW 50mW		
Power Rating @ 70°C SOIC-N Package	8-Pin 14-Pin 16-Pin	700mW	
Power Rating @ 70°C SOIC-W Package	16-Pin 20-Pin	1.2W 1.5W	
Rated Operating Voltage (not to exceed $\sqrt{Power X Resistance}$)	100 Volts		
Operating Temperature	-55°C to +125°C		
Noise	<-30dB		
	1		

Environmental Data

Test Per MIL-PRF-83401	Typical Delta R	Max Delta R
Thermal Shock	±0.02%	±0.1%
Power Conditioning	±0.03%	±0.1%
High Temperature Exposure	±0.03%	±0.05%
Short-time Overload	±0.02%	±0.05%
Low Temperature Storage	±0.03%	±0.05%
Life	±0.05%	±2.0%



General Note IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.

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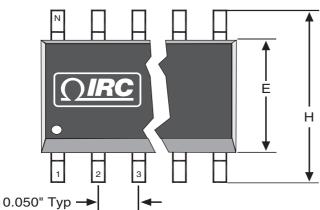
Manufacturing Capability Data

	ISOLATED SCHEMATIC A					BUSSED SCHEMATIC B			
Absolute TCR (ppm/°C)	Ohmic Range (Ω)	Available Tolerances	Available Ratio Tolerances	Best Tracking (±ppm/°C)	Ohmic Range (Ω)	Available Tolerances	Available Ratio Tolerances	Best Tracking (±ppm/°C)	
	10-25	FGJ	FG	50	10-25	FGJ	FG	200	
	26-50	DFGJ	CDFG	10	26-50	FGJ	DFG	100	
	51-200	CDFGJ	CDFG	5	51-100	DFGJ	CDFG	50	
250	201-250K	BCDFGJ	ABCDFG	5	101-200	DFGJ	BCDFG	25	
					201-500	BCDFGJ	BCDFG	20	
					501-100K	BCDFGJ	ABCDFG	5	
	26-50	DFGJ	CDFG	10	26-50	FGJ	DFG	100	
	51-200	CDFGJ	CDFG	5	51-100	DFGJ	CDFG	50	
100	201-250K	BCDFGJ	ABFG	5	101-200	DFGJ	BCDFG	25	
					201-500	BCDFGJ	Available Ratio TolerancesBest Tracking (±ppm/°C)F G200D F G100C D F G50B C D F G225B C D F G20A B C D F G50D F G100C D F G50	20	
					501-100K	BCDFGJ	ABCDFG	5	
	26-50	DFGJ	CDFG	10	51-100	DFGJ	CDFG	50	
50	51-200	CDFGJ	CDFG	5	101-200	DFGJ	BCDFG	25	
	201-250K	BCDFGJ	ABFG	5	201-500	BCDFGJ	BCDFG	20	
					501-100K	BCDFGJ	ABCDFG	5	
	51-200	CDFGJ	CDFG	5	201-500	BCDFGJ	BCDFG	20	
25	201-250K	BCDFGJ	ABFG	5	501-100K	BCDFGJ	ABCDFG	5	

Surface Mount SOIC Resistor Networks

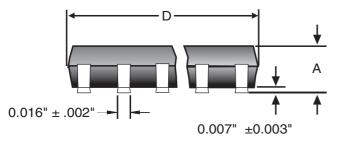


Physical and Schematic Data

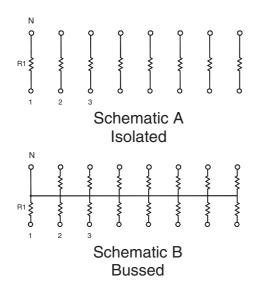


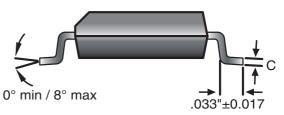
	SOIC-N			SOIC-W		
	8-Pin	14-Pin	16-Pin	16-Pin	20-Pin	
D	0.193"±0.004	0.341"±0.004	0.390"±0.004	0.402"±0.004	0.502"±0.004	
н	0.236"±0.008			0.406"±0.008		
Е	0.153"±.004			0.295"	±0.004	
А	0.064"±0.004			0.100"±0.004		
с	0.0075" - 0.010"			0.011"	±0.002	

Note: N = number of pins (8, 14, 16)



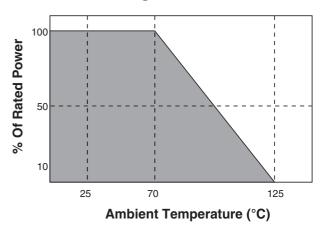
Note: All dimesions exclude mold flash and end flash which shall not exceed 0.006" per side.





Note: Lead Coplanarity 0.004" Max.

Power Derating Curve



For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below.

Surface Mount SOIC **Resistor Networks**



Ordering Data

Prefix	01 -	1002 -	F	в
Style, Schematic and Termination SS4A = 8-pin SOIC-N, 4 Isolated Resistors; Sn/Pb terminations				:
S4ALF = 8-pin SOIC-N, 4 Isolated Resistors; 100% tin (Pb-free) terminations	÷		:	:
SS4B = 8-pin SOIC-N, 7 Bussed Resistors; Sn/Pb terminations			:	:
SS4BLF = 8-pin SOIC-N, 7 Bussed Resistors; 100% tin (Pb-free) terminations	÷		:	:
	:		:	:
SS7A = 14-pin SOIC-N, 7 Isolated Resistors; Sn/Pb terminations	:		:	:
SS7ALF = 14-pin SOIC-N, 7 Isolated Resistors; 100% tin (Pb-free) terminations	:	-	:	:
SS7B = 14-pin SOIC-N, 13 Bussed Resistors; Sn/Pb terminations	:	:		:
SS7BLF = 14-pin SOIC-N, 13 Bussed Resistors; 100% tin (Pb-free) terminations	:	:		:
	:	:		:
SS8A = 16-pin SOIC-N, 8 Isolated Resistors; Sn/Pb terminations	:	:		:
SS8ALF = 16-pin SOIC-N, 8 Isolated Resistors; 100% tin (Pb-free) terminations	:	:		:
SS8B = 16-pin SOIC-N, 15 Bussed Resistors; Sn/Pb terminations	:	:	-	
SS8BLF = 16-pin SOIC-N, 15 Bussed Resistors; 100% tin (Pb-free) terminations	:	:	:	
	:	:	:	
SL8A = 16-pin SOIC-W, 8 Isolated Resistors; Sn/Pb terminations	:		:	
SLALF = 16-pin SOIG-W, 8 Isolated Resistors; 10% in (Pb-free) terminations	1	:	:	
SL8B = 16-pin SOIC-W, 15 Bussed Resistors; Sn/Pb terminations		:	:	:
SL8BLF = 16-pin SOIC-W, 15 Bussed Resistors; 100% tin (Pb-free) terminations		:	:	:
	:		:	:
SL0A = 20-pin SOIC-W, 10 Isolated Resistors; Sn/Pb terminations	:		:	:
SLOAL = 20-pin SOLOW, 10 Isolated Resistors, 100% III (Pb-free) terminations	:		:	:
SLOB = 20-pin SOIC-W, 19 Bussed Resistors; Sn/Pb terminations	:	-	:	:
SL0BLF = 20-pin SOIC-W, 19 Bussed Resistors; 100% tin (Pb-free) terminations	:	:	:	:
Absolute TCR Code	:	:	:	:
Absolute TCR Code	•	:	:	:
$02 = \pm 50$ ppm/°C; $03 = \pm 25$ ppm/°C		:	:	:
		:	:	:
Resistance Code	• • • •			:
4-Digit Resistance Code				:
Ex: $1002 = 10K\Omega$, $50R1 = 50.1\Omega$:
Absolute Tolerance Code · · · · · · · · · · · · · · · · · · ·				:
A = 50% (G = ±2%; F = ±1%; D = ±0.5%)				:
$C = \pm 0.25\%; B = \pm 0.1\%$				
Optional Ratio Tolerance Code				.:
$G = \pm 2\%$; $F = \pm 1\%$; $D = \pm 0.5\%$;				
$C = \pm 0.25\%$; $B = \pm 0.1\%$; $A = \pm 0.05\%$				

Packaging Specify tubes or tape & reel.



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