

Full Performance Amplifiers

B-74-09-51

T-74-09-01

Flatpack Package

Model No.	Freq. Range (MHz)	Gain (dB)		Noise Figure (dB)		Power Output (dBm)		Third Order Intercept Point Typ (dBm)	VSWR MAX In/Out	Power Typ	
		Typ	Min	Typ	Max	Typ	Min			Vdc	mA
FP6146	5-500	21.0	20.5	5.0	5.5	+21	+20	+34	1.5:1	+15	130
FP9130	200-2000	23.5	22.0	5.0	6.5	+15	+13.5	+27	2.0:1	+15	90

Limiting Amplifiers

Available in 4 Pin TO-8, Flatpacks, Surface Mount Packages and Connectorized Housings

Model No.	Freq. Range (MHz)	Gain (dB)		Output Level Saturated dBm	Noise Figure	Power Outlet 1 dB Comp pt. Min dBm	VSWR MAX	Power Typ	
		Typ	Min					Vdc	mA
TL9002	50-500	12.5	11.0	+15.0	9.0	+8.0	2.0:1	+15	54
TL9004	50-500	10.0	9.0	+13.5	9.0	+8.0	2.0:1	+12	50

Multi Stage Amplifiers

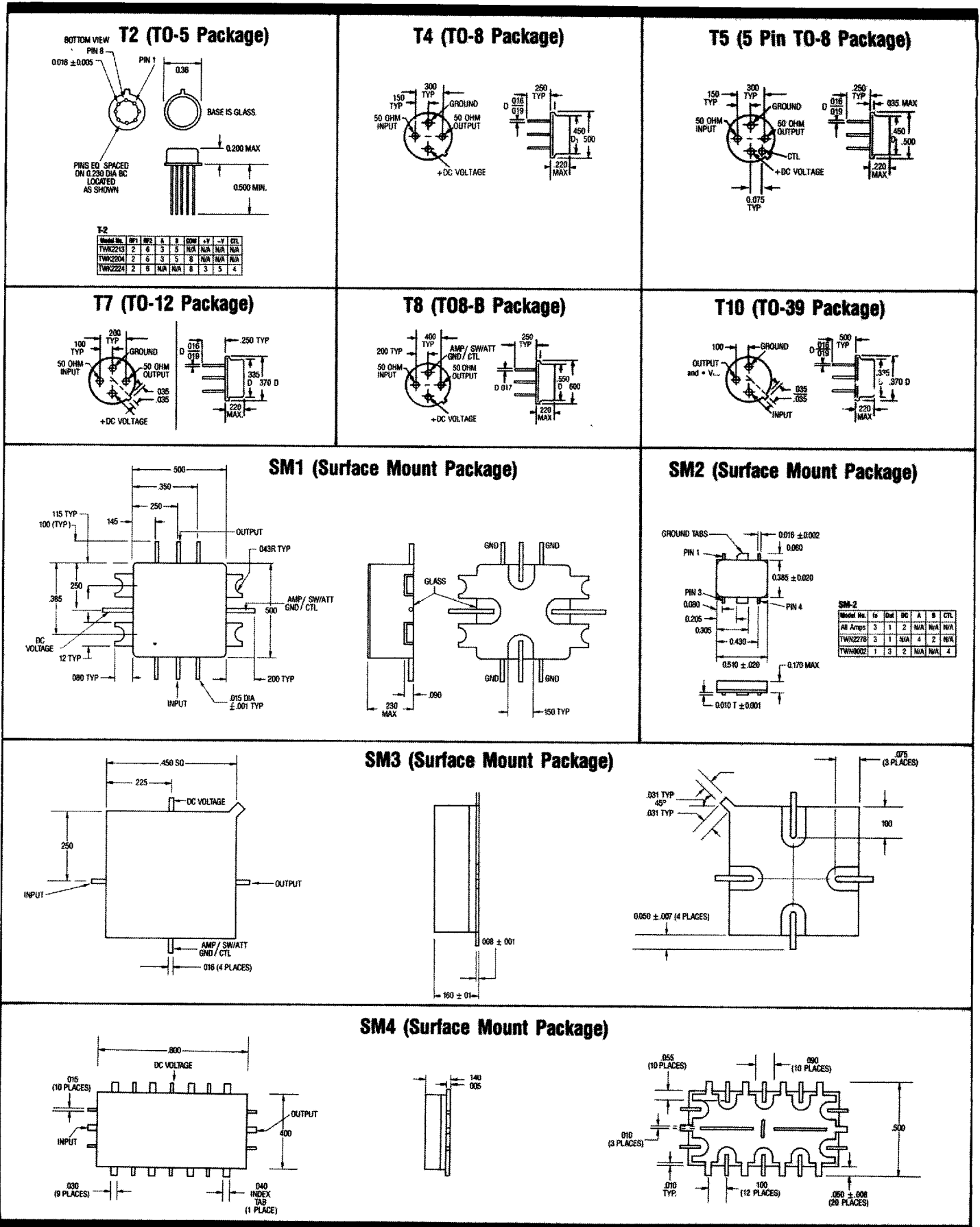
4 Pin Dip Package

(Listed by increasing Frequency, Noise Figure, and Power)

Model No.	Freq. Range (MHz)	Gain (dB)		Noise Figure (dB)		Power Output (dBm)		Third Order Intercept Point Typ (dBm)	VSWR MAX In/Out	Power Typ	
		Typ	Min	Typ	Max	Typ	Min			Vdc	mA
DM4175	1-250	33.5	31.0	4.8	5.3	+10.5	+9.0	+25	2.0:1	+12	55
DM4178	1-250	21.0	20.0	6.0	7.0	+21.0	+20.0	+34	2.0:1	+15	120
DM4177	5-250	32.0	30.5	5.8	6.3	+9.0	+8.0	+21	2.0:1	+12	60
DM4179	5-250	21.0	20.0	6.0	7.0	+21.0	+20.0	+34	2.0:1	+15	120
DM4180	5-400	25.0	24.0	5.2	7.0	+22.0	+20.0	+30	2.0:1	+15	125
DM4150	5-500	25.0	24.0	2.3	2.7	+6.0	+5.0	+16	2.0:1	+12	40
DM4152	5-500	32.0	30.5	5.7	6.2	+9.0	+8.0	+21	2.0:1	+12	60

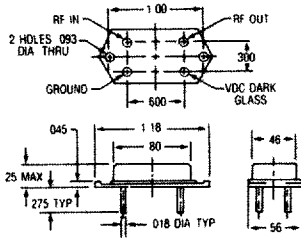
Outline Drawings

All unmarked Pins are internally grounded.

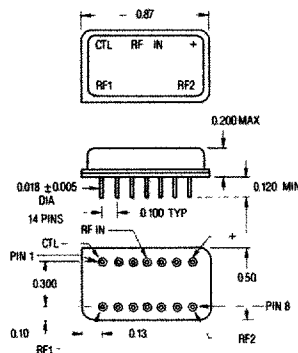


Outline Drawings *All unmarked Pins are internally grounded.*

DP1 (Dip)



DP3 (Dip)

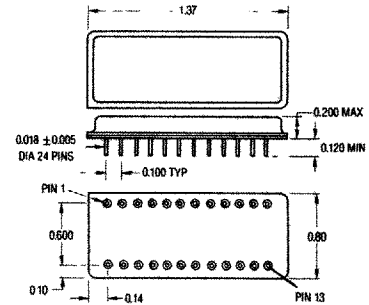


DP-3

Model No.	CON	RF1	RF2	+V	CTL
ALL	4	14	8	7	1
TWD5001 ONLY	4	14	8	3	5

RF 2 not used on SPST Switches
+ = +5 Vdc / +15V

DP5 (Dip)



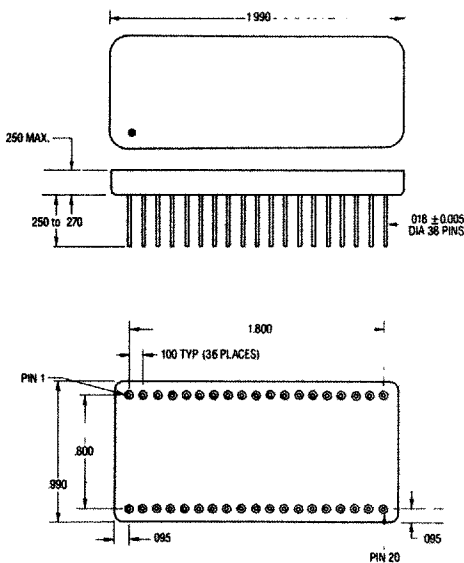
DP-5 Switches

Model No.	CON	R1	R2	R3	R4	R5	R6	R7	R8	CTL 1	CTL 2	CTL 3	CTL 4	↓ Bias	↓ Bias
TAD5003	7	1	24	13	12	N/A	N/A	N/A	N/A	21	20	17	16	18	N/A
TAD5004	7	1	24	13	12	N/A	N/A	N/A	N/A	20	19	18	17	21	16
TAD5005	19	1	3	10	12	13	15	22	24	5	6	7	N/A	8	17

DP-5 Digital Attenuators

Model	RF MAE	HU MAE	0.5	1.0	2.0	3.0	4.0	6.0	8.0	12	16	24	St + Res	- MAE	
TAD2106	24	13	N/A	6	7	N/A	8	N/A	9	N/A	5	N/A	N/A	1	3
TAD5006	24	13	N/A	N/A	5	N/A	8	N/A	10	N/A	3	N/A	1	N/A	
TAD5007	24	13	N/A	N/A	5	N/A	8	N/A	10	N/A	3	N/A	1	N/A	
TAD5008	24	13	N/A	N/A	6	N/A	7	N/A	8	N/A	9	N/A	5	1	N/A

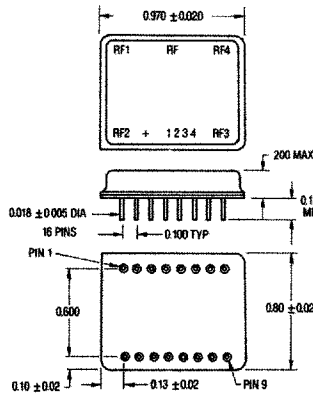
DP8 (Dip)



DP-3

Model No.	RF In/Out	RF In/Out	1	2	4	8	8	1.8	1.8	2.8	3.2	4.8	8.4	8.8	16	32	+ Drive
TAC5009	28	20	13	8	11	N/A	15	N/A	7	N/A	5	N/A	17	N/A	N/A	N/A	N/A
TAC5010	36	20	N/A	N/A	N/A	7	N/A	9	N/A	11	N/A	13	N/A	15	17	5	1

DP10 (Dip)

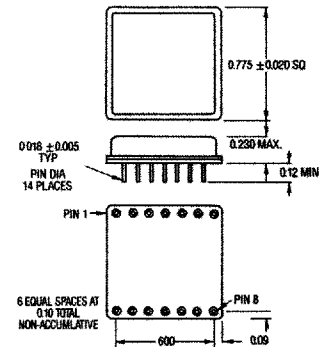


DP-10

CON	NP1	NP2	NP3	NP4	Y+	CTC 1	CTC 2	CTC 3	CTC 4
5	1	8	9	16	15	13	12	11	10

RF 4 not connected on SPST Switches
+ = +5 Vdc

DP11 (Dip)



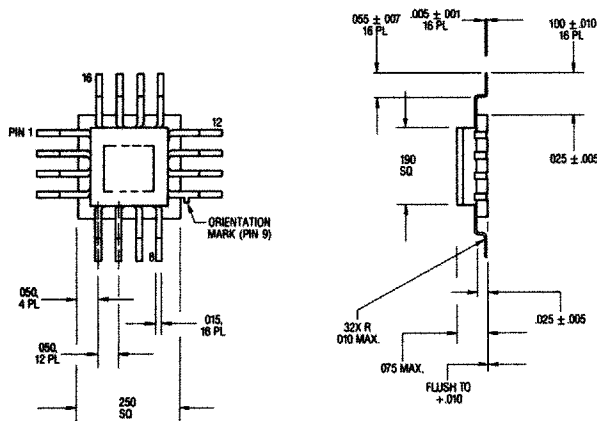
DP-11 Switch

Model No.	RF CON	RF 1	RF 2	- BAS	4 BAS	CTL
TWD5002	11	1	7	5	3	4

DP-11 Digital Attenuator

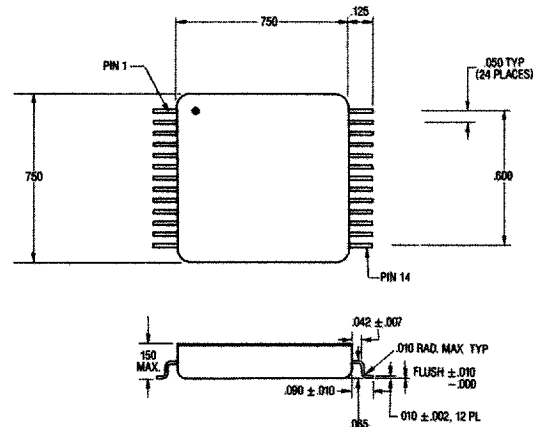
Model No.	INF IN	INF OUT	2.0	4.0	8.0	16.0	+ Max	- Min
TAD6006	1	14	3	11	12	4	10	6

SG5 (Gull Wing Surface Mount Package)

**SG-5**

Model No.	RF1	RF2	RF3	RF4	COM	A1	B1	A2	B2	A3	B3	A4	B4
TWN2243	1	6	8	13	15	2	3	5	4	9	10	11	12

SG2 (Gull Wing Surface Mount Package)

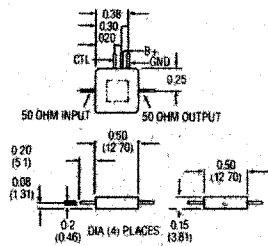
**SG-2**

Model No.	CON	MP1	MP2	MP3	MP4	MP5	MP6	-Y	CTL1	CTL2	CTL3
TVN8003	7	15	17	19	21	23	25	13	3	4	5

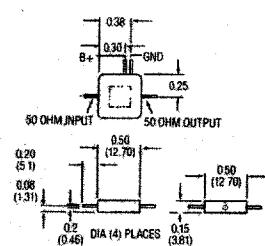
Outline Drawings

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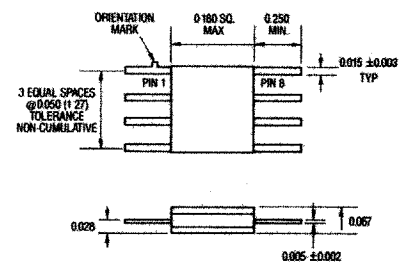
FP2 (Flatpack)



FP4 (Flatpack)



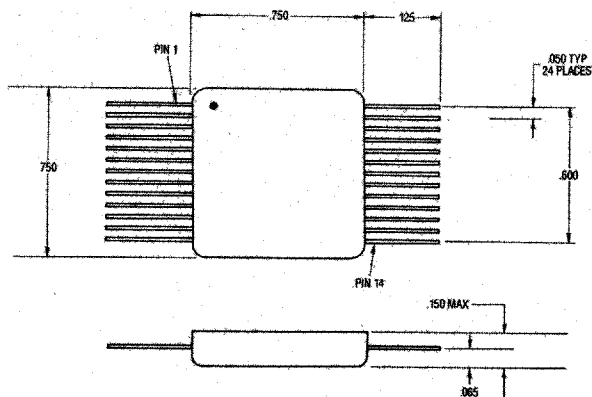
FP7 (Flatpack)



FP-7
PIN CONFIGURATION

Model No.	RF COM	RF1	RF2	A	B
SPST	N/A	8	5	2	3
SPDT	1	3	6	4	5

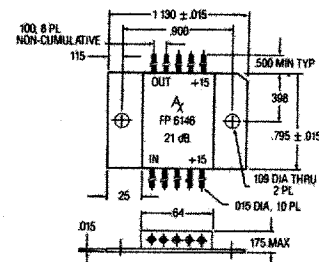
FP9 (Flatpack)



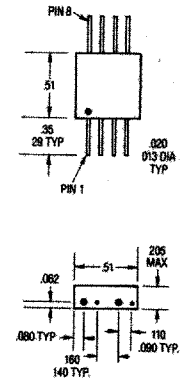
FP-9

Model No.	COM	RF1	RF2	RF3	RF4	RF5	RF6	RF7	-V	CTL	CTL
TWP6004	7	14	16	18	20	22	24	26	13	3	4

FP10 (Flatpack)



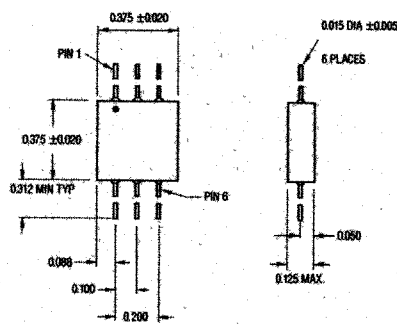
FP11 (Flatpack)



FP-11

Def	V _{max}	V ₊
100%	7	3

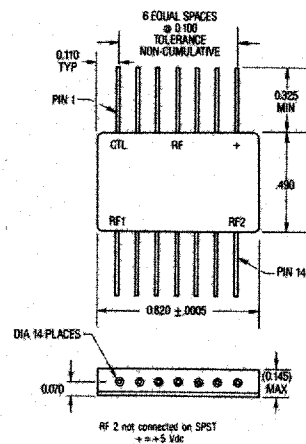
FP12 (Flatpack)



FP-12

Model No.	RF1	RF2	COM	A	B	-S	-R	CTL
TWP2214	2	4	N/A	1	3	N/A	N/A	N/A
TWP2282	4	6	2	1	3	N/A	N/A	N/A
TWP2225	4	6	2	N/A	N/A	1	3	4

FP13 (Flatpack)



FP14 (Flatpack)

