

Full Performance Amplifiers

B-74-09-51

Flatpack Package

T-74-09-01

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 Output 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

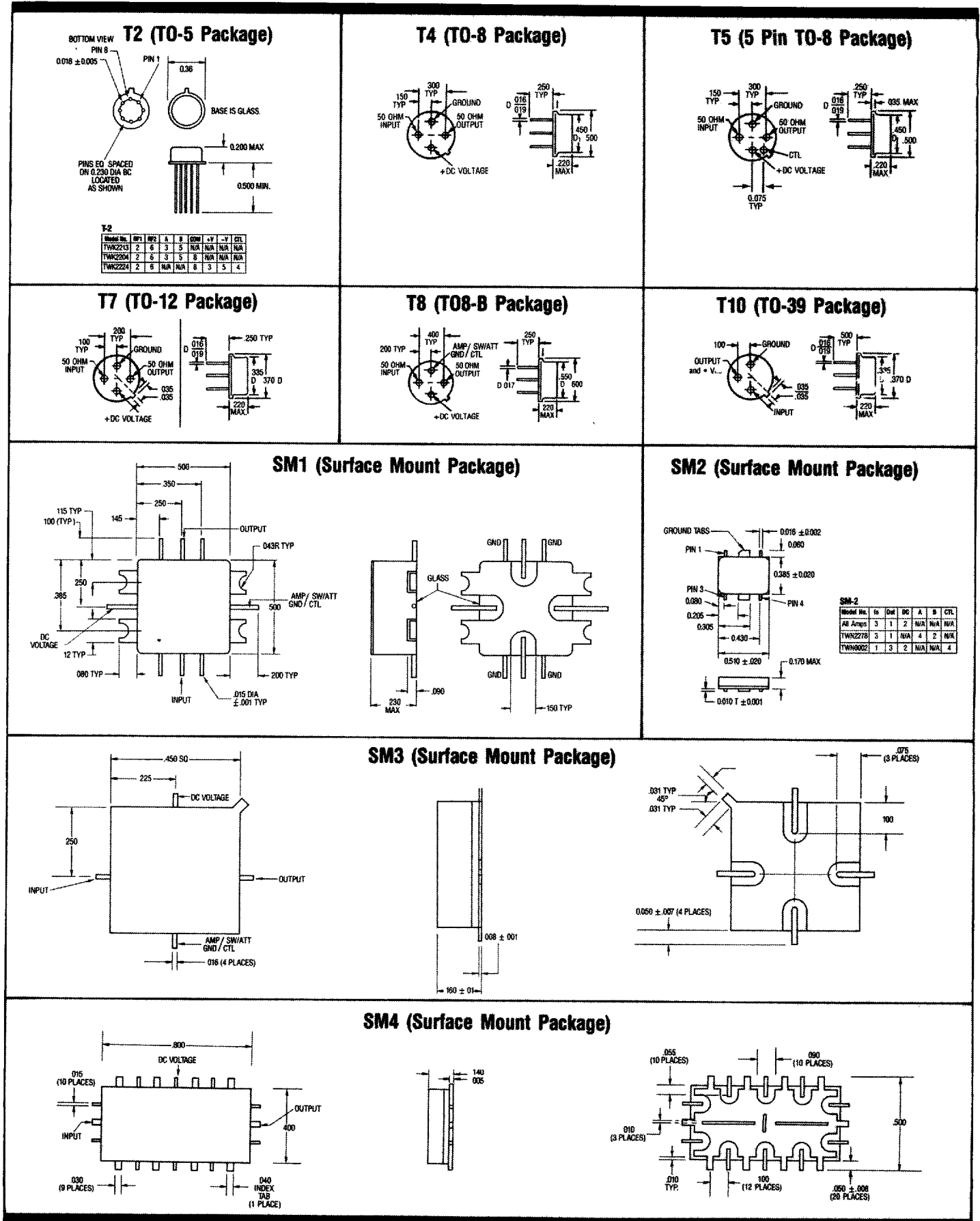
Multi Stage Amplifiers**4 Pin Dip Package**

(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

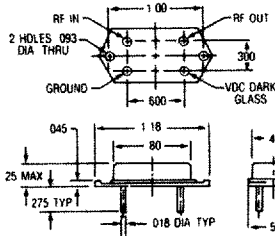
All unmarked Pins are internally grounded.



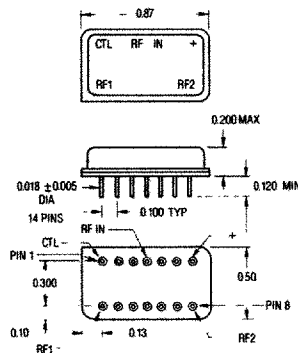
Outline Drawings

All unmarked Pins are internally grounded.

DP1 (Dip)



DP3 (Dip)

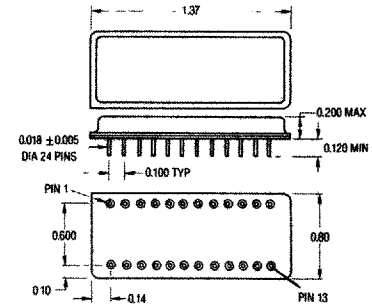


DP-3

Model No.	COM	RF1	RF2	+V	CTL
ALL	4	14	8	7	1
TW55001 ONLY	4	14	8	3	5

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

DP5 (Dip)



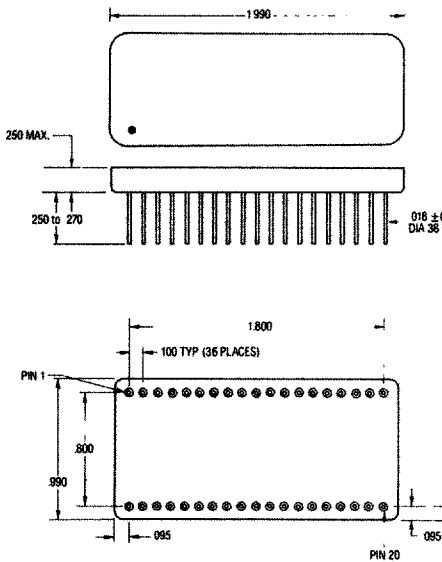
DP-5 Switches

Model No.	COM	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	CTL	CTL	CTL	+	-
TAD5003	7	1	24	13	12	N/A	N/A	N/A	N/A	21	20	17	18	N/A
TAD5004	7	1	24	13	12	N/A	N/A	N/A	N/A	20	18	17	21	16
TAD5005	19	1	3	10	12	13	15	22	24	5	6	7	N/A	8

DP-5 Digital Attenuators

Model No.	RF Input	RF Output	dB	1.8	2.8	3.8	4.8	5.8	6.8	7.8	8.8	9.8	10.8	11.8	12.8	13.8	14.8	15.8	16.8	17.8	18.8	19.8	20.8	21.8	22.8	23.8	24.8	25.8	26.8	27.8	28.8	29.8	30.8	31.8	32.8	33.8	34.8	35.8	36.8	37.8	38.8	39.8	40.8	41.8	42.8	43.8	44.8	45.8	46.8	47.8	48.8	49.8	50.8	51.8	52.8	53.8	54.8	55.8	56.8	57.8	58.8	59.8	60.8	61.8	62.8	63.8	64.8	65.8	66.8	67.8	68.8	69.8	70.8	71.8	72.8	73.8	74.8	75.8	76.8	77.8	78.8	79.8	80.8	81.8	82.8	83.8	84.8	85.8	86.8	87.8	88.8	89.8	90.8	91.8	92.8	93.8	94.8	95.8	96.8	97.8	98.8	99.8	100.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
TAD2106	24	13	N/A	6	7	N/A	8	N/A	9	N/A	5	N/A	N/A	1	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

DP8 (Dip)



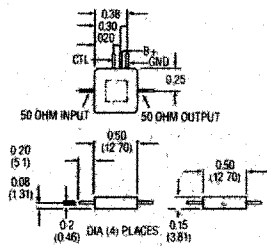
DP-8

Model No.	RF Input	RF Output	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	9
-----------	----------	-----------	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---

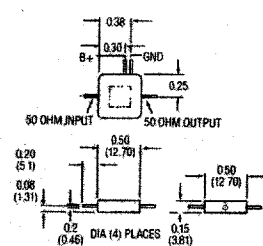
Outline Drawings

All unmarked Pins are internally grounded.

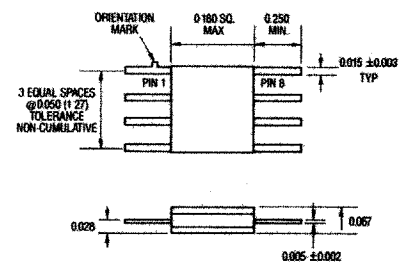
FP2 (Flatpack)



FP4 (Flatpack)



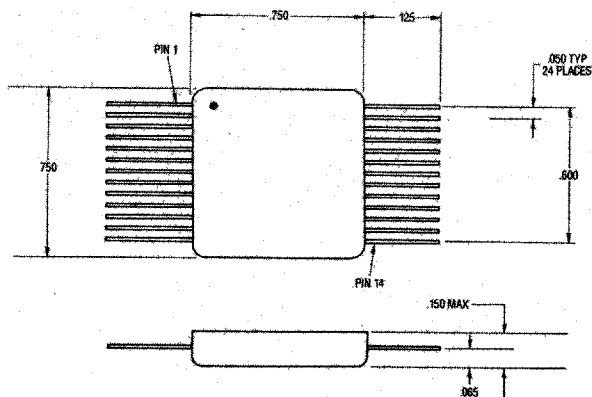
FP7 (Flatpack)



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

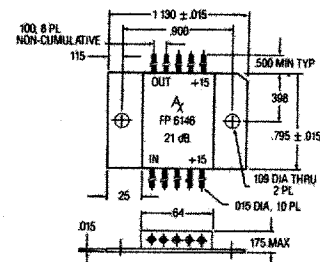
FP9 (Flatpack)



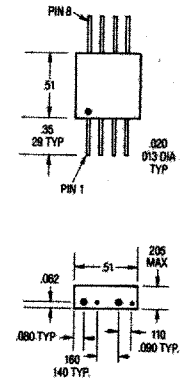
FP-9

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)



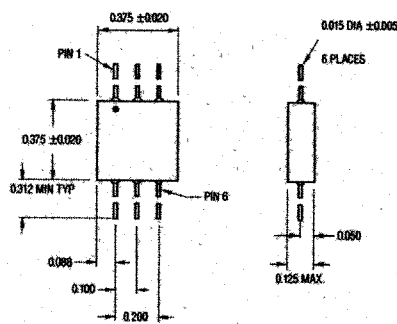
FP11 (Flatpack)



FP-11

Def	V _{cc}	V _{ee}	V ₊
100%	7	3	1

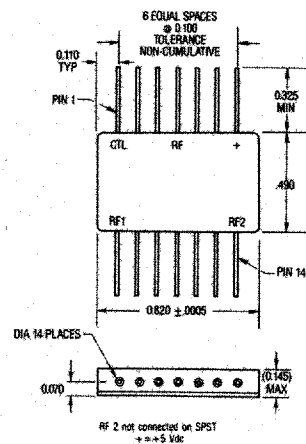
FP12 (Flatpack)



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)

