

Low Cost Modules:

Available in 3 Pin TO-39 and Connectorized Housings

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

B-74-09-51
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 Vdc mA	
		Typ	Min	Typ	Max	Typ	Min					
CZ8040**	kHz-300	18.5	18.0	3.8	5.0	+11.0	+ 9.5	+18	3.0	2.5	+3.4	25
CZ8111**	kHz-400	15.0	13.0	2.8	4.0	+ 0.5	- 2.0	+14	2.5	2.5	+1.8	10
CZ8110**	kHz-400	14.0	13.0	4.0	4.5	- 2.0	- 4.0	+ 8	2.5	2.5	+3	10
CZ8120**	kHz-400	14.0	13.0	5.0	6.0	+ 9.0	+ 7.0	+18	2.5	2.5	+5	25
CZ8130**	kHz-400	14.0	13.0	6.0	7.0	+17.0	+16.0	+26	3.0	2.5	+5.75	60
CZ8210**	kHz-600	10.0	9.0	5.5	6.5	- 3.0	- 4.0	+ 8	2.5	2.5	+1.75	10
CZ8220**	kHz-600	10.0	9.0	5.5	6.5	+ 9.0	+ 7.0	+18	2.5	2.5	+3.5	25
CZ8230**	kHz-600	10.0	9.0	5.5	6.5	+16.0	+15.0	+22	3.0	2.5	+5	60
CZ8310**	kHz-1000	8.0	7.0	6.0	7.0	- 3.0	- 4.0	+ 8	3.0	3.0	+1.6	10
CZ8320**	kHz-1000	8.0	7.0	6.2	7.2	+ 8.0	+ 7.0	+18	3.0	3.0	+2.75	25
CZ8330**	kHz-1000	6.5	5.5	8.5	9.5	+14.0	+13.0	+22	3.0	3.0	+4.5	60

**Requires 3 external capacitors.

General Application Amplifiers

Available in 4 Pin TO-12, Flatpacks, Surface Mount Packages and Connectorized Housings

(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 Vdc mA	
		Typ	Min	Typ	Max	Typ	Min					
CZ8206	5-200	31.8	30.0	3.2	3.5	+ 4.2	+ 3.0	+14	2.0:1		+12	30
CZ8251	5-200	26.5	25.0	3.6	4.0	+ 2.5	+ 1.0	+16	2.0:1		+ 5	30
CZ8201	5-200	32.0	30.0	3.3	4.0	+ 5.8	+ 3.0	+16	2.0:1		+15	30
CZ8202	5-200	29.0	27.0	4.2	5.0	+10.0	+ 9.0	+20	2.0:1		+15	60
CZ8207	5-200	18.0	17.0	4.0	5.5	+ 4.0	0.0	+13	2.0:1		+ 5	16.5
CZ8208	5-200	14.0	13.0	4.5	7.0	+12.0	+10.0	+23	2.0:1		+12	36
CZ8205	5-200	13.5	12.0	6.0	7.0	+21.0	+19.0	+25	2.0:1		+15	95
CZ8203	5-200	20.0	19.0	6.9	7.5	+ 9.5	+ 8.5	+20	2.0:1		+15	60
CZ8451	5-250	17.0	15.5	2.3	3.0	+ 2.5	0.0	+14	2.0:1		+ 5	12.5
*CZ8453	5-300	22.0	19.5	1.9	2.5	+ 5.0	+ 2.5	+16	2.0:1		+15	18
CZ8400	5-400	14.0	13.0	3.2	3.5	- 2.0	- 3.0	+ 8	2.5:1		+15	8
CZ8460**	kHz-400	14.0	13.0	3.2	3.5	- 2.0	- 3.0	+ 8	2.5:1		+15	8
CZ8401	5-400	14.0	13.0	4.2	4.8	- 2.0	- 4.0	+ 8	2.0:1		+15	10
CZ8461**	kHz-400	14.0	13.0	4.2	4.8	- 2.0	- 4.0	+ 8	2.0:1		+15	10
CZ8402	5-400	15.0	13.5	4.8	5.8	+ 7.0	+ 6.0	+20	2.0:1		+15	25
CZ8462**	kHz-400	15.0	13.5	4.8	5.8	+ 9.0	+ 7.0	+20	2.0:1		+15	25
CZ8405	5-400	13.5	13.0	6.0	7.0	+20.5	+19.0	+32	2.0:1		+15	90
CZ8403	5-400	10.5	9.0	7.2	7.8	+15.0	+14.0	+26	2.0:1		+24	65
CZ8463**	kHz-400	10.5	9.0	7.2	7.8	+15.0	+14.0	+26	2.0:1		+24	65
CZ8404	5-400	10.5	9.0	7.2	7.8	+15.0	+14.0	+26	2.0:1		+15	65
CZ8464**	kHz-400	10.5	9.0	7.2	7.8	+15.0	+14.0	+26	2.0:1		+15	65
CZ8553	5-500	19.5	18.0	3.5	4.5	+12.0	+ 9.0	+24	2.0:1		+15	33

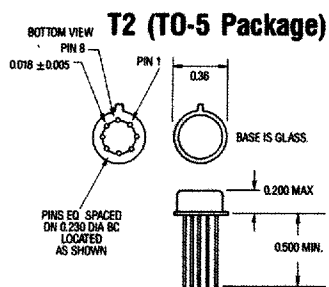
*New Product. **Requires 3 external capacitors.

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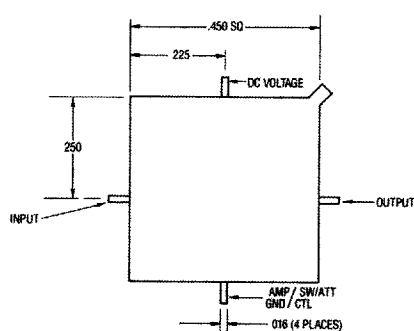
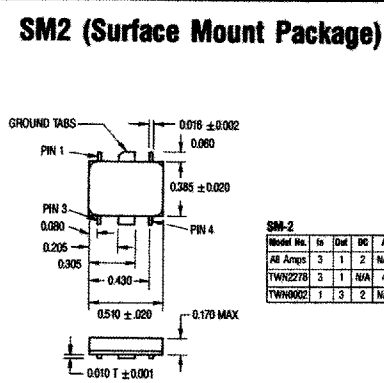
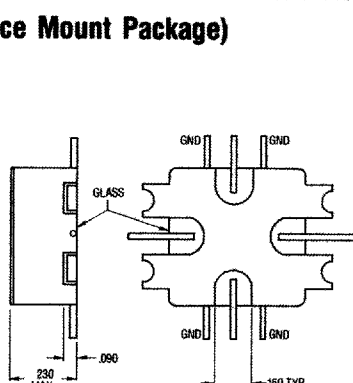
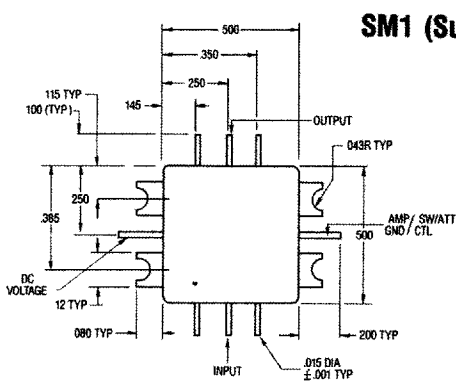
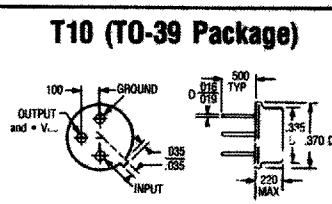
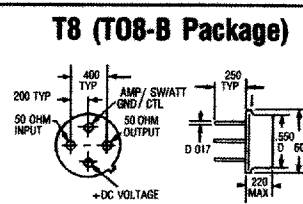
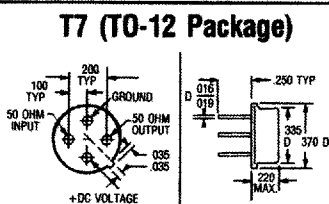
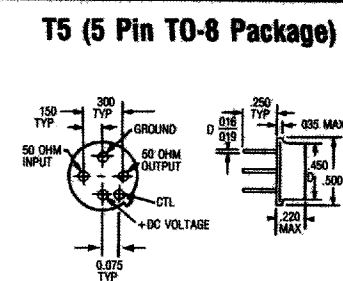
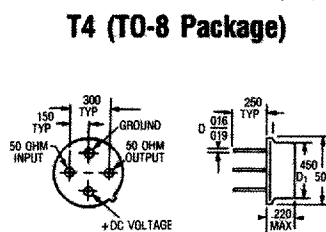
Outline Drawings

All unmarked Pins are internally grounded.

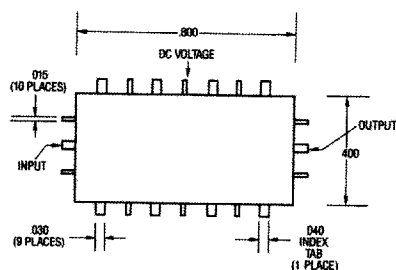
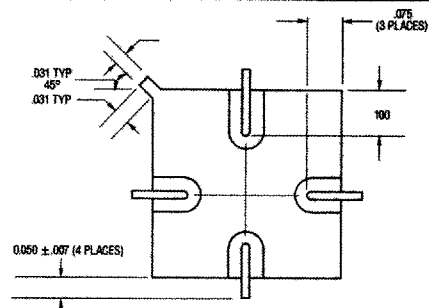
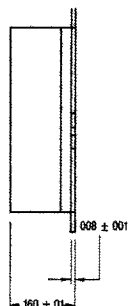
• T-90-20



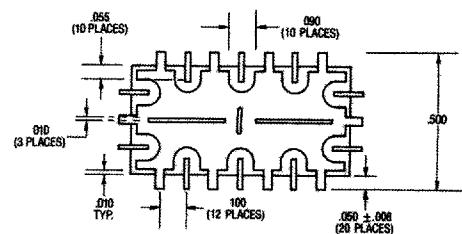
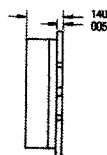
Model No.	BF1	BF2	A	B	CON	+Y	-Y	CTL
TW92213	2	6	3	5	N/A	N/A	N/A	N/A
TW92204	2	6	3	5	8	N/A	N/A	N/A
TW92224	2	6	N/A	N/A	8	3	5	4



SM3 (Surface Mount Package)



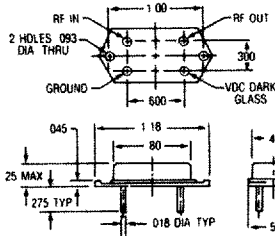
SM4 (Surface Mount Package)



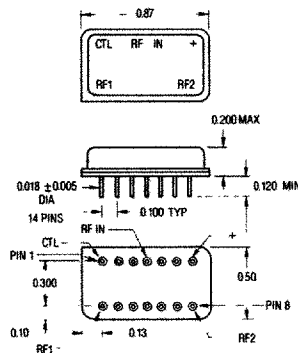
Outline Drawings

All unmarked Pins are internally grounded.

DP1 (Dip)



DP3 (Dip)

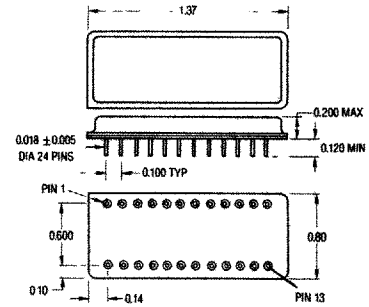


DP-3

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

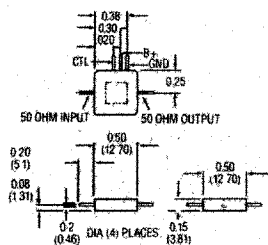
DP-5 Digital Attenuators

Model No.	RF Input	RF Output	dB	1.8	2.8	3.8	4.8	5.8	6.8	8.8	12	16	24	32	40	48	56
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	8	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	3	1	N/A		

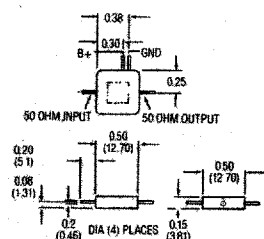
Outline Drawings

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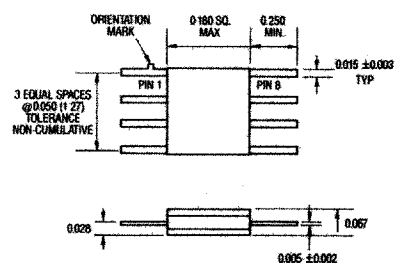
FP2 (Flatpack)



FP4 (Flatpack)



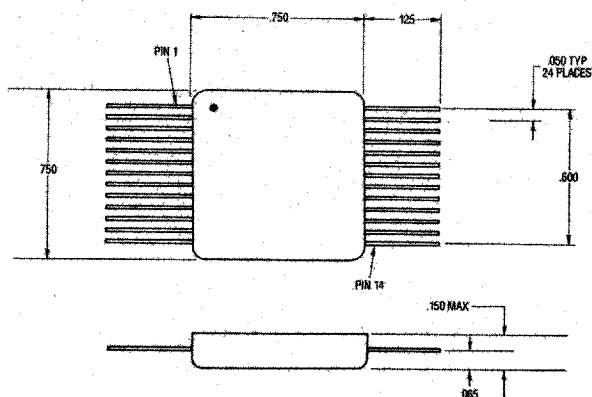
FP7 (Flatpack)



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

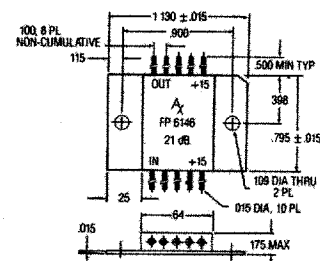
FP9 (Flatpack)



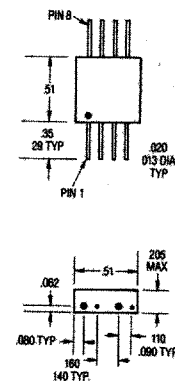
FP-9

Model No.	COM	RF1	RF2	RF3	RF4	RF5	RF6	RF7	A	B	CTL	CTL
TWP6004	7	14	16	18	20	22	24	26	13	3	4	5

FP10 (Flatpack)



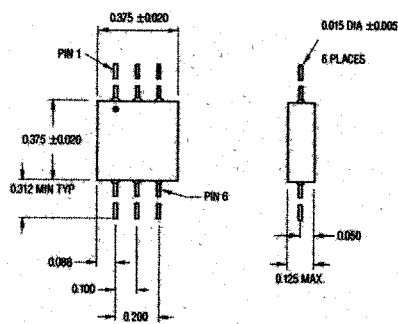
FP11 (Flatpack)



FP-11

Def	V _{max}	V ₊
V _{00H}	7	3

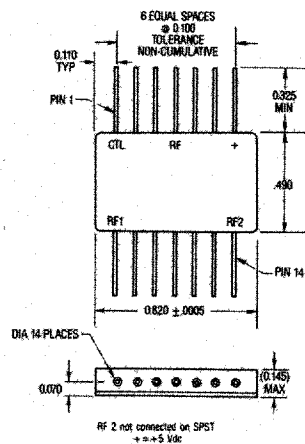
FP12 (Flatpack)



FP-12

Model No.	RF1	RF2	COM	A	B	A	B	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)

