

Full Performance Amplifiers

T-74-09-01

Available in 4 Pin TO-8 (TM), 4 Pin TO-8B (TR), Flatpacks, Surface Mount Packages and Connectorized Housings

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

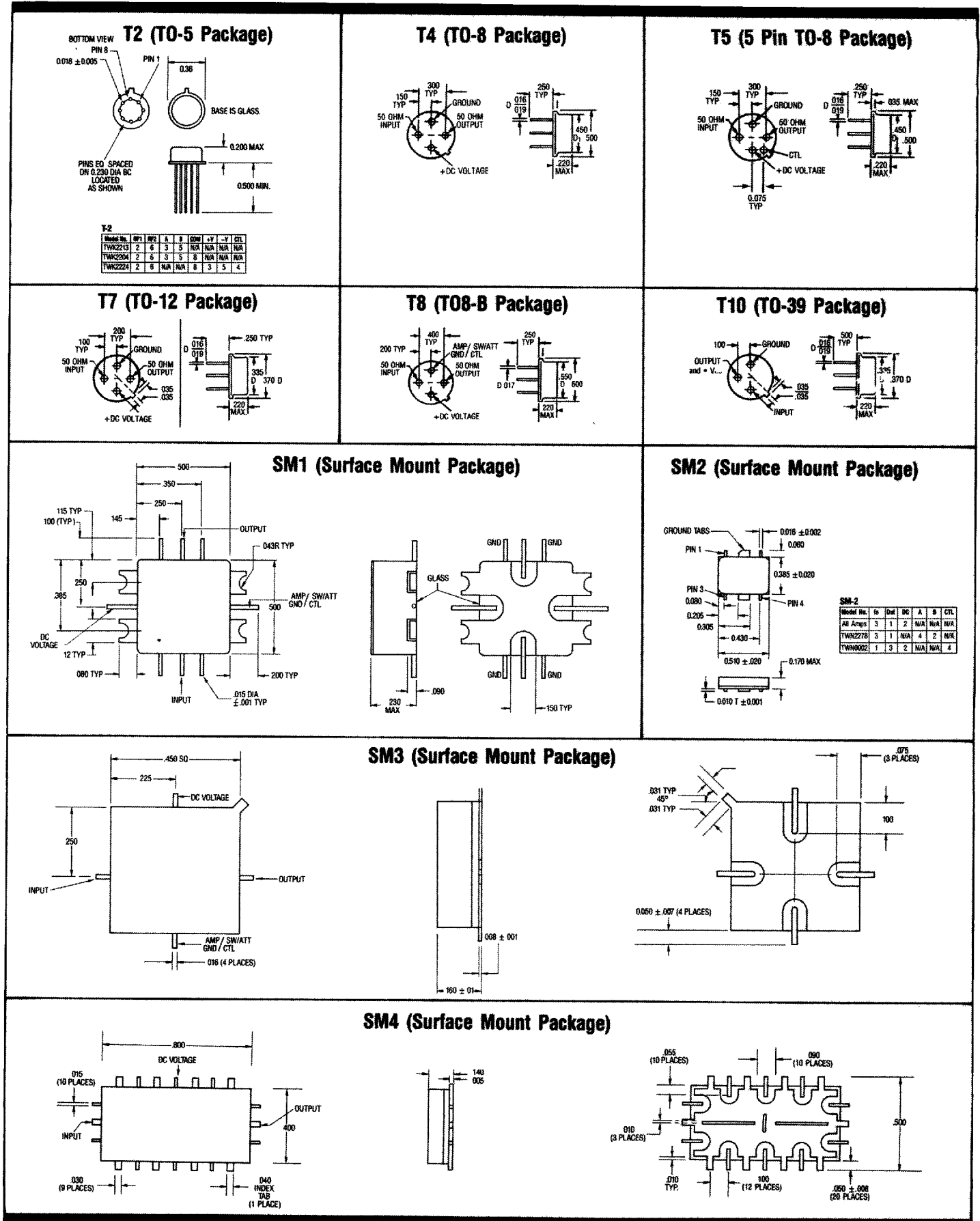
B-74-09-51

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
TM9311	5-1000	16.0	15.0	2.3	3.0	+ 1.0	- 2.0	+13	2.0:1	+15	9
TM9363	5-1000	16.0	15.0	2.4	3.5	+ 7.0	+ 6.0	+21	2.0:1	+15	16
TM9111	5-1000	15.0	14.0	2.4	4.0	+ 1.0	- 2.0	+12	2.0:1	+15	9
TM9312	5-1000	16.5	15.0	2.5	4.0	+ 8.0	+ 4.0	+18	2.0:1	+15	18
TM9112	10-1000	16.0	14.5	3.0	4.0	+11.0	+ 9.0	+21	2.0:1	+15	22
TM9163	5-1000	16.0	15.0	2.5	4.5	+ 6.0	+ 2.0	+20	2.0:1	+15	14
*TM9143	10-1000	10.5	9.0	2.5	4.5	+10.0	+ 8.0	+27	2.0:1	+15	25
TM9366	10-1000	27.5	25.5	2.7	4.5	+16.0	+14.0	+26	2.0:1	+15	70
TM6145	10-1000	10.7	10.0	3.0	5.0	+19.0	+16.0	+33	2.0:1	+15	60
*TM9157	10-1000	10.5	9.0	4.5	5.5	+14.0	+13.0	+27	2.0:1	+15	44
TM9318	10-1000	14.7	13.5	3.8	5.5	+16.0	+14.5	+30	2.0:1	+15	47
*TR9169	10-1000	25.5	24.0	3.8	5.5	+21.0	+19.0	+33	2.0:1	+15	125
*TM9333	5-1000	11.5	10.0	4.8	6.0	+16.0	+14.0	+30	2.0:1	+15	48
TM9117	10-1000	12.0	10.0	4.0	6.0	+16.0	+15.0	+29	2.0:1	+15	46
TM9106	5-1000	12.0	10.5	4.8	6.5	+18.5	+16.0	+30	2.0:1	+15	70
TM9115	5-1000	15.2	13.0	4.1	7.0	+10.2	+ 6.5	+23	2.0:1	+15	24
TM9102	5-1000	14.5	13.5	5.0	7.0	+ 8.5	+ 7.0	+21	2.0:1	+15	23
TM9319	10-1000	11.5	10.0	5.5	7.5	+22.0	+20.0	+35	2.0:1	+15	90
TM9165	10-1000	10.5	9.0	4.0	8.0	+11.0	+ 8.0	+24	2.0:1	+15	30
TM9119	10-1000	9.0	7.0	6.5	9.0	+22.0	+19.0	+35	2.0:1	+15	100
TM6345	10-1100	12.3	11.5	2.6	3.7	+17.0	+15.0	+30	2.0:1	+15	45
*TM9316	10-1200	13.0	12.0	3.0	4.0	+ 6.0	+ 4.5	+19	2.0:1	+15	18
TM9164	10-1200	26.0	23.0	3.0	4.5	+ 8.0	+ 6.5	+19	2.0:1	+15	35
TM9166	10-1200	23.5	21.0	4.5	5.5	+15.0	+13.5	+27	2.0:1	+15	65
*TM5131	5-1300	18.0	17.0	5.0	7.0	+ 7.0	+ 5.0	+19	2.0:1	+15	40
TM6212	10-1300	10.0	8.5	6.0	8.0	+23.0	+19.5	+34	2.0:1	+15	92
TM9524	10-1500	22.0	20.0	4.3	5.0	+13.0	+10.0	+23	2.0:1	+15	56
*TM9502	5-1500	10.5	8.5	4.0	5.5	+ 9.0	+ 7.0	+24	2.0:1	+15	23
TM9123	5-1500	12.0	10.0	3.5	6.0	+ 4.5	+ 2.0	+19	2.0:1	+15	14
TM9114	10-1500	20.0	18.0	4.5	6.0	+ 6.5	+ 5.5	+20.5	2.0:1	+12	34
TM9124	10-1500	20.0	18.0	4.5	6.0	+ 7.0	+ 6.0	+20.5	2.0:1	+15	34
TM9522	5-1500	20.5	18.5	5.0	6.0	+14.0	+10.0	+23.5	2.0:1	+15	64
TM9126	10-1500	20.5	18.5	5.0	6.0	+15.0	+13.0	+28	2.0:1	+15	64
TM9128	10-1500	11.5	10.0	4.5	6.0	+15.0	+13.5	+29	2.0:1	+15	40
TM9122	10-1500	15.0	13.0	4.7	7.0	+ 5.0	+ 4.0	+21	2.0:1	+15	34
TM9121	10-1500	15.0	13.0	5.0	7.0	+ 7.0	+ 5.0	+19	2.0:1	+15	35
TM9125	10-1500	10.1	8.0	5.0	8.0	+ 8.0	+ 6.5	+21	2.0:1	+15	24
TM9329	10-1500	9.0	7.5	6.5	9.0	+22.0	+19.0	+35	2.0:1	+15	90
TM9127	10-1500	9.0	7.0	7.5	9.5	+15.5	+13.5	+22.5	2.0:1	+15	53
TM9129	10-1500	7.5	5.0	9.0	10.5	+21.0	+19.5	+34	2.0:1	+15	93
TM9331	10-2000	11.8	10.5	3.5	4.5	- 2.0	- 4.5	+9	2.0:1	+15	11
*TM9352	5-2000	10.0	8.5	4.0	5.5	+ 8.0	+ 5.0	+20	2.0:1	+15	18
*TM9324	5-2000	16.0	14.5	4.8	5.5	+ 6.5	+ 4.5	+19	2.0:1	+15	38
*TM9113	500-2000	11.0	8.5	4.5	6.0	+22.0	+18.0	+33	2.0:1	+15	120
TM9133	10-2000	10.0	8.0	4.2	6.0	+ 3.0	+ 2.0	+15	2.0:1	+15	16
TM9135	10-2000	10.2	8.5	5.0	6.5	+ 9.0	+ 7.5	+23	2.0:1	+15	25
*TM9322	10-2000	10.0	8.5	5.0	6.5	+ 9.0	+ 7.5	+23	2.0:1	+15	25
TM9136	100-2000	16.5	14.5	5.5	6.5	+12.0	+11.0	+23	2.0:1	+15	64
TM9134	100-2000	16.0	14.0	5.5	7.0	+ 7.0	+ 5.0	+18	2.0:1	+15	34
*TM9323	10-2000	8.5	7.5	5.5	7.5	+15.0	+14.0	+30	2.0:1	+15	50
TM9103	1000-2000	9.0	7.5	5.0	8.5	+11.0	+ 7.0	+24	2.0:1	+15	30
TM9137	10-2000	9.3	7.0	6.5	8.5	+15.5	+13.5	+28	2.0:1	+15	53
TM9138	10-2000	7.5	6.0	6.0	9.5	+19.0	+16.5	+33	2.0:1	+15	72
*TM9139	10-2000	7.5	6.0	7.5	10.0	+22.0	+20.0	+34	2.0:1	+15	90
TM9336	100-2300	16.0	14.0	6.0	7.5	+12.0	+11.0	+23	2.0:1	+15	63
*TM9302	1700-2300	10.5	8.5	5.0	6.5	+15.0	+14.0	+23	2.0:1	+15	18

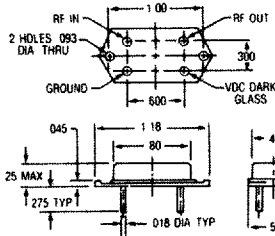
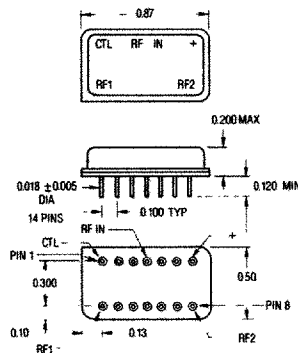
*New Product

Outline Drawings

All unmarked Pins are internally grounded.

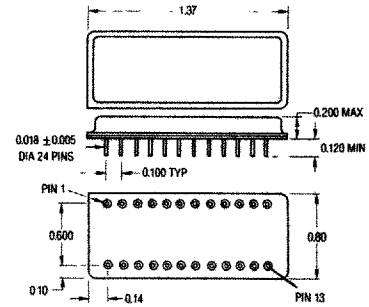


Outline Drawings *All unmarked Pins are internally grounded.*

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

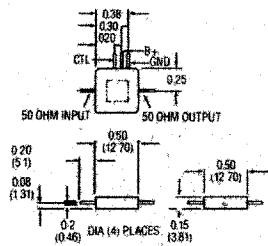
DP-5 Digital Attenuators

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	101.8	102.8	103.8	104.8	105.8	106.8	107.8	108.8	109.8	110.8	111.8	112.8	113.8	114.8	115.8	116.8	117.8	118.8	119.8	120.8	121.8	122.8	123.8	124.8	125.8	126.8	127.8	128.8	129.8	130.8	131.8	132.8	133.8	134.8	135.8	136.8	137.8	138.8	139.8	140.8	141.8	142.8	143.8	144.8	145.8	146.8	147.8	148.8	149.8	150.8	151.8	152.8	153.8	154.8	155.8	156.8	157.8	158.8	159.8	160.8	161.8	162.8	163.8	164.8	165.8	166.8	167.8	168.8	169.8	170.8	171.8	172.8	173.8	174.8	175.8	176.8	177.8	178.8	179.8	180.8	181.8	182.8	183.8	184.8	185.8	186.8	187.8	188.8	189.8	190.8	191.8	192.8	193.8	194.8	195.8	196.8	197.8	198.8	199.8	200.8	201.8	202.8	203.8	204.8	205.8	206.8	207.8	208.8	209.8	210.8	211.8	212.8	213.8	214.8	215.8	216.8	217.8	218.8	219.8	220.8	221.8	222.8	223.8	224.8	225.8	226.8	227.8	228.8	229.8	230.8	231.8	232.8	233.8	234.8	235.8	236.8	237.8	238.8	239.8	240.8	241.8	242.8	243.8	244.8	245.8	246.8	247.8	248.8	249.8	250.8	251.8	252.8	253.8	254.8	255.8	256.8	257.8	258.8	259.8	260.8	261.8	262.8	263.8	264.8	265.8	266.8	267.8	268.8	269.8	270.8	271.8	272.8	273.8	274.8	275.8	276.8	277.8	278.8	279.8	280.8	281.8	282.8	283.8	284.8	285.8	286.8	287.8	288.8	289.8	290.8	291.8	292.8	293.8	294.8	295.8	296.8	297.8	298.8	299.8	300.8	301.8	302.8	303.8	304.8	305.8	306.8	307.8	308.8	309.8	310.8	311.8	312.8	313.8	314.8	315.8	316.8	317.8	318.8	319.8	320.8	321.8	322.8	323.8	324.8	325.8	326.8	327.8	328.8	329.8	330.8	331.8	332.8	333.8	334.8	335.8	336.8	337.8	338.8	339.8	340.8	341.8	342.8	343.8	344.8	345.8	346.8	347.8	348.8	349.8	350.8	351.8	352.8	353.8	354.8	355.8	356.8	357.8	358.8	359.8	360.8	361.8	362.8	363.8	364.8	365.8	366.8	367.8	368.8	369.8	370.8	371.8	372.8	373.8	374.8	375.8	376.8	377.8	378.8	379.8	380.8	381.8	382.8	383.8	384.8	385.8	386.8	387.8	388.8	389.8	390.8	391.8	392.8	393.8	394.8	395.8	396.8	397.8	398.8	399.8	400.8	401.8	402.8	403.8	404.8	405.8	406.8	407.8	408.8	409.8	410.8	411.8	412.8	413.8	414.8	415.8	416.8	417.8	418.8	419.8	420.8	421.8	422.8	423.8	424.8	425.8	426.8	427.8	428.8	429.8	430.8	431.8	432.8	433.8	434.8	435.8	436.8	437.8	438.8	439.8	440.8	441.8	442.8	443.8	444.8	445.8	446.8	447.8	448.8	449.8	450.8	451.8	452.8	453.8	454.8	455.8	456.8	457.8	458.8	459.8	460.8	461.8	462.8	463.8	464.8	465.8	466.8	467.8	468.8	469.8	470.8	471.8	472.8	473.8	474.8	475.8	476.8	477.8	478.8	479.8	480.8	481.8	482.8	483.8	484.8	485.8	486.8	487.8	488.8	489.8	490.8	491.8	492.8	493.8	494.8	495.8	496.8	497.8	498.8	499.8	500.8	501.8	502.8	503.8	504.8	505.8	506.8	507.8	508.8	509.8	510.8	511.8	512.8	513.8	514.8	515.8	516.8	517.8	518.8	519.8	520.8	521.8	522.8	523.8	524.8	525.8	526.8	527.8	528.8	529.8	530.8	531.8	532.8	533.8	534.8	535.8	536.8	537.8	538.8	539.8	540.8	541.8	542.8	543.8	544.8	545.8	546.8	547.8	548.8	549.8	550.8	551.8	552.8	553.8	554.8	555.8	556.8	557.8	558.8	559.8	560.8	561.8	562.8	563.8	564.8	565.8	566.8	567.8	568.8	569.8	570.8	571.8	572.8	573.8	574.8	575.8	576.8	577.8	578.8	579.8	580.8	581.8	582.8	583.8	584.8	585.8	586.8	587.8	588.8	589.8	590.8	591.8	592.8	593.8	594.8	595.8	596.8	597.8	598.8	599.8	600.8	601.8	602.8	603.8	604.8	605.8	606.8	607.8	608.8	609.8	610.8	611.8	612.8	613.8	614.8	615.8	616.8	617.8	618.8	619.8	620.8	621.8	622.8	623.8	624.8	625.8	626.8	627.8	628.8	629.8	630.8	631.8	632.8	633.8	634.8	635.8	636.8	637.8	638.8	639.8	640.8	641.8	642.8	643.8	644.8	645.8	646.8	647.8	648.8	649.8	650.8	651.8	652.8	653.8	654.8	655.8	656.8	657.8	658.8	659.8	660.8	661.8	662.8	663.8	664.8	665.8	666.8	667.8	668.8	669.8	670.8	671.8	672.8	673.8	674.8	675.8	676.8	677.8	678.8	679.8	680.8	681.8	682.8	683.8	684.8	685.8	686.8	687.8	688.8	689.8	690.8	691.8	692.8	693.8	694.8	695.8	696.8	697.8	698.8	699.8	700.8	701.8	702.8	703.8	704.8	705.8	706.8	707.8	708.8	709.8	710.8	711.8	712.8	713.8	714.8	715.8	716.8	717.8	718.8	719.8	720.8	721.8	722.8	723.8	724.8	725.8	726.8	727.8	728.8	729.8	730.8	731.8	732.8	733.8	734.8	735.8	736.8	737.8	738.8	739.8	740.8	741.8	742.8	743.8	744.8	745.8	746.8	747.8	748.8	749.8	750.8	751.8	752.8	753.8	754.8	755.8	756.8	757.8	758.8	759.8	760.8	761.8	762.8	763.8	764.8	765.8	766.8	767.8	768.8	769.8	770.8	771.8	772.8	773.8	774.8	775.8	776.8	777.8	778.8	779.8	780.8	781.8	782.8	783.8	784.8	785.8	786.8	787.8	788.8	789.8	790.8	791.8	792.8	793.8	794.8	795.8	796.8	797.8	798.8	799.8	800.8	801.8	802.8	803.8	804.8	805.8	806.8	807.8	808.8	809.8	810.8	811.8	812.8	813.8	814.8	815.8	816.8	817.8	818.8	819.8	820.8	821.8	822.8	823.8	824.8	825.8	826.8	827.8	828.8	829.8	830.8	831.8	832.8	833.8	834.8	835.8	836.8	837.8	838.8	839.8	840.8	841.8	842.8	843.8	844.8	845.8	846.8	847.8	848.8	849.8	850.8	851.8	852.8	853.8	854.8	855.8	856.8	857.8	858.8	859.8	860.8	861.8	862.8	863.8	864.8	865.8	866.8	867.8	868.8	869.8	870.8	871.8	872.8	873.8	874.8	875.8	876.8	877.8	878.8	879.8	880.8	881.8	882.8	883.8	884.8	885.8	886.8	887.8	888.8	889.8	890.8	891.8	892.8	893.8	894.8	895.8	896.8	897.8	898.8	899.8	900.8	901.8	902.8	903.8	904.8	905.8	906.8	907.8	908.8	909.8	910.8	911.8	912.8	913.8	914.8	915.8	916.8	917.8	918.8	919.8	920.8	921.8	922.8	923.8	924.8	925.8	926.8	927.8	928.8	929.8	930.8	931.8	932.8	933.8	934.8	935.8	936.8	937.8	938.8	939.8	940.8	941.8	942.8	943.8	944.8	945.8	946.8	947.8	948.8	949.8	950.8	951.8	952.8	953.8	954.8	955.8	956.8	957.8	958.8	959.8	960.8	961.8	962.8	963.8	964.8	965.8	966.8	967.8	968.8	969.8	970.8	971.8	972.8	973.8	974.8	975.8	976.8	977.8	978.8	979.8	980.8	981.8	982.8	983.8	984.8	985.8	986.8	987.8	988.8	989.8	990.8	991.8	992.8	993.8	994.8	995.8	996.8	997.8	998.8	999.8	1000.8	1001.8	1002.8	1003.8	1004.8	1005.8	1006.8	1007.8	1008.8	1009.8	1010.8	1011.8	1012.8	1013.8	1014.8	1015.8	1016.8	1017.8	1018.8	1019.8	1020.8	1021.8	1022.8	1023.8	1024.8	1025.8	1026.8	1027.8	1028.8	1029.8	1030.8	1031.8	1032.8	1033.8	1034.8	1035.8	1036.8	1037.8	1038.8	1039.8	1040.8	1041.8	1042.8	1043.8	1044.8	1045.8	1046.8	1047.8	1048.8	1049.8	1050.8	1051.8	1052.8	1053.8	1054.8	1055.8	1056.8	1057.8	1058.8	1059.8	1060.8	1061.8	1062.8	1063.8	1064.8	1065.8	1066.8	1067.8	1068.8	1069.8	1070.8	1071.8	1072.8	1073.8	1074.8	1075.8	1076.8	1077.8	1078.8	1079.8	1080.8	1081.8	1082.8	1083.8	1084
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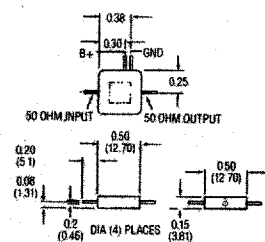
Outline Drawings

All unmarked Pins are internally grounded.

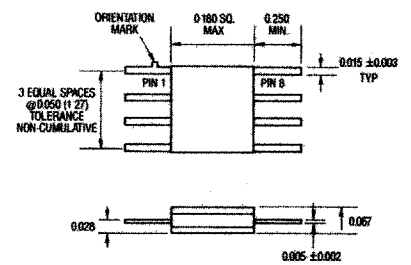
FP2 (Flatpack)



FP4 (Flatpack)



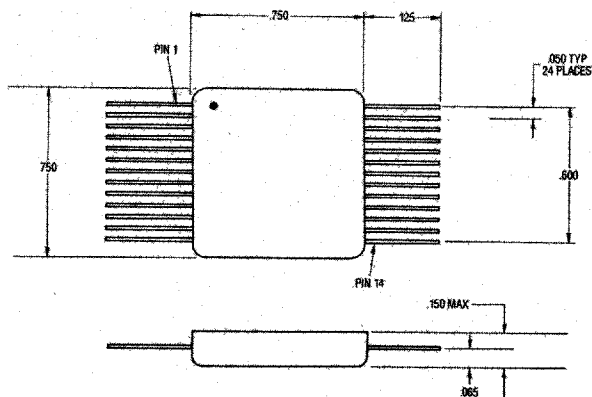
FP7 (Flatpack)



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

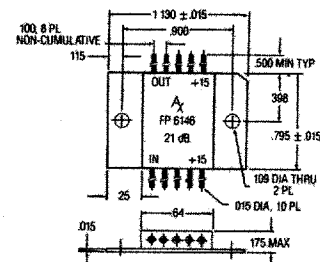
FP9 (Flatpack)



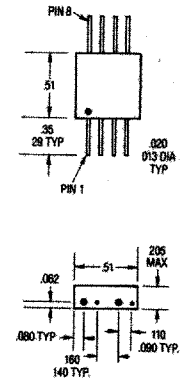
FP-9

Model No.	COM	RF1	RF2	RF3	RF4	RF5	RF6	RF7	-V	CTL	CT1
TWP6004	7	14	16	18	20	22	24	26	13	3	4

FP10 (Flatpack)



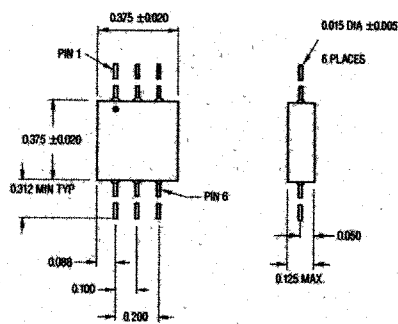
FP11 (Flatpack)



FP-11

Def	V _{max}	V ₊
V _{00H}	7	3

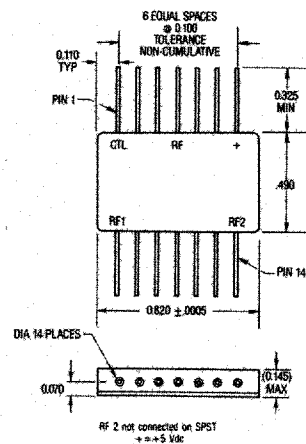
FP12 (Flatpack)



FP-12

Model No.	RF1	RF2	COM	A	B	-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)

