

T-74-09-01



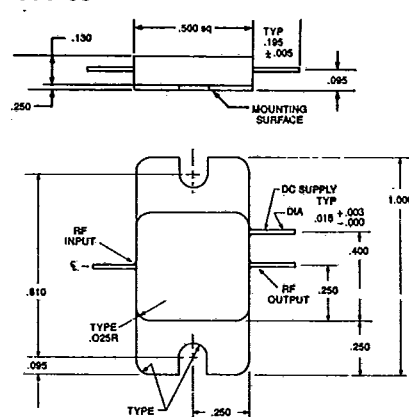
- High Output: +19.5dBm
- High Third Order: +34.0dBm
- **Various Package Options (see photo)**
Surface Mounted (SMTO-8), Flatpack with flange (FPF),
Connectorized (CAH), Connectorized Flatpack (CFP),
Flatpack (FP), and TO-8 (AH)

Measured in a 50-ohm system at +15 Vdc nominal

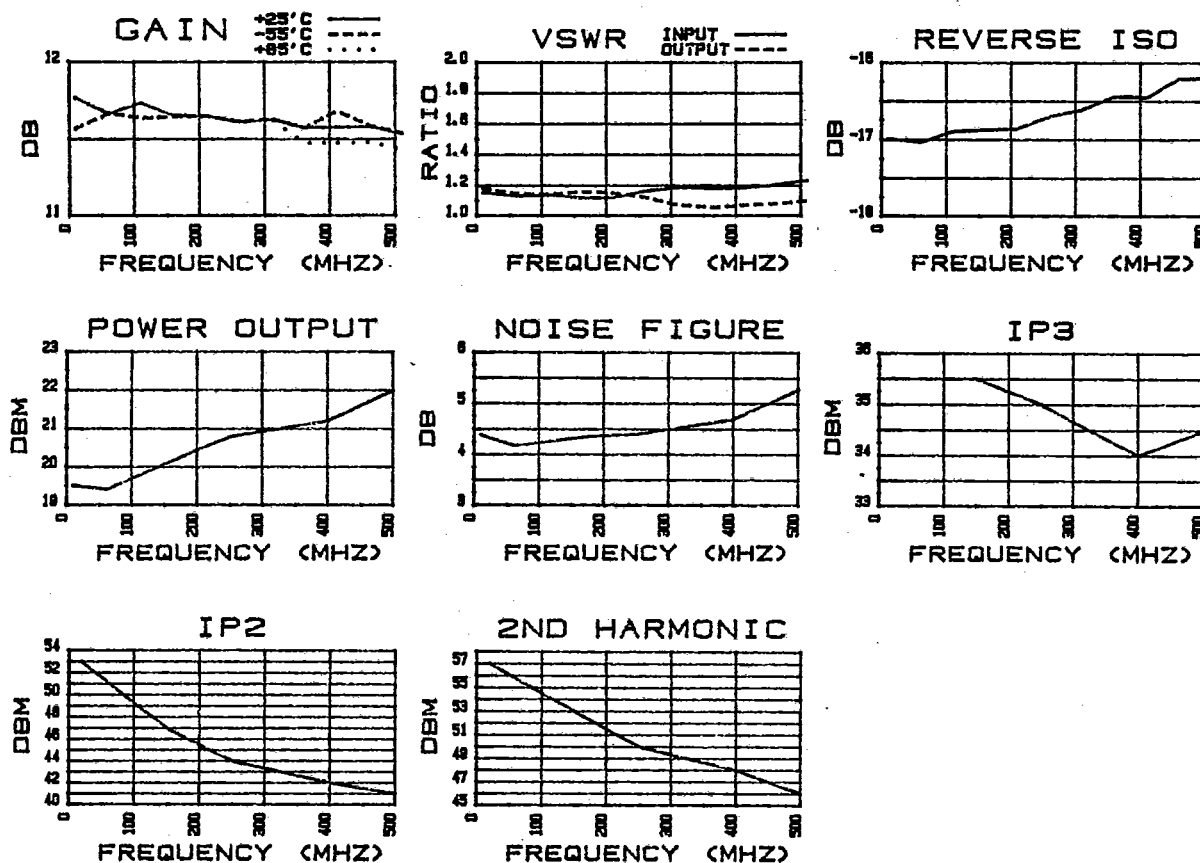
Maximum Ratings

Ambient Operating Temperature	-54°C to +100°C
Storage Temperature ...	-62°C to +125°C
Maximum Case Temperature	+105°C
Maximum DC Voltage	+18.0V
Maximum Continuous RF Input Power	+13.0dBm
Maximum Short Term RF Input Power	+100.0 mW
Maximum Peak Power	+0.5W (3μseconds Max.)
"X" Series Burn-In Temperature	+100°C
Weight	+2.5 grams Max.

(For additional package configurations, see Section 9)

FPF-58

Typical Performance



AH-58 63.9 mA @15.0Vdc Linear S-Parameters

FREQUENCY MHz	RETURN LOSS INPUT (S11)		TRANS. GAIN FORWARD (S21)		TRANS. GAIN REVERSE (S12)		RETURN LOSS OUTPUT (S22)	
	dB	ANG	dB	ANG	dB	ANG	dB	ANG
5.000	-20.5	-120.8	11.78	-169.3	-16.99	9.2	-19.4	52.1
55.000	-25.6	-170.6	11.67	169.4	-16.93	-4.2	-22.8	-10.8
105.000	-24.2	-175.6	11.64	157.1	-16.98	-8.5	-23.7	-19.2
155.000	-25.6	167.4	11.65	141.0	-16.88	-13.4	-22.8	-17.3
205.000	-25.7	164.4	11.55	132.5	-16.77	-17.7	-22.9	-23.8
255.000	-22.9	169.6	11.62	120.4	-16.79	-22.4	-24.8	-37.6
305.000	-22.2	162.5	11.62	108.6	-16.59	-26.5	-26.9	-42.0
355.000	-22.6	156.2	11.59	93.3	-16.43	-31.0	-29.1	-28.2
405.000	-21.6	152.8	11.61	84.6	-16.34	-36.1	-27.1	-25.5
455.000	-20.7	150.7	11.60	72.9	-16.30	-40.5	-26.6	-16.4
505.000	-18.8	136.0	11.52	60.5	-16.29	-46.0	-25.8	6.2

Deviation from Linear Phase, Gain, Group Delay, and VSWR

FREQUENCY (MHz)	VSWR INPUT	DEV. LIN. 0 (DEG.)	GAIN DEV. (dB)	GROUP DELAY (n-SEC)	VSWR OUTPUT
5.000	1.208	7.272	0.158	0.000	1.239
55.000	1.111	-1.610	0.048	1.187	1.156
105.000	1.131	-1.343	0.022	0.679	1.141
155.000	1.111	-4.977	0.024	0.896	1.156
205.000	1.110	-0.995	-0.069	0.473	1.154
255.000	1.154	-0.611	-0.006	0.673	1.122
305.000	1.169	0.119	-0.003	0.653	1.095
355.000	1.159	-2.716	-0.032	0.851	1.072
405.000	1.182	1.094	-0.016	0.482	1.092
455.000	1.203	1.856	-0.021	0.652	1.098
505.000	1.258	1.910	-0.106	0.691	1.108