

T-74-09-01



- High Output: +22.0dBm
- High Third Order: +36.0dBm
- **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

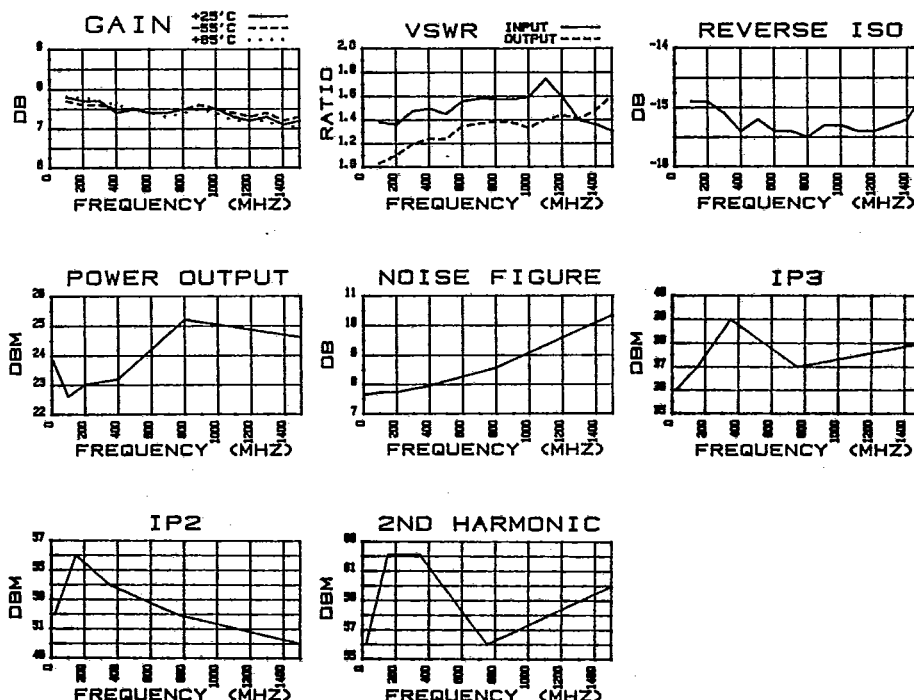
Maximum Ratings

Ambient Operating Temperature	- 54°C to + 100°C
Storage Temperature ...	- 62°C to + 125°C
Maximum Case Temperature	+ 95°C
Maximum DC Voltage	+ 18.0V
Maximum Continuous RF Input Power	+ 19.0dBm
Maximum Short Term RF Input Power	+ 21.0dBm (1 minute Max.)
Maximum Peak Power	+ 0.5W (3μseconds Max.)
"X" Series Burn-In Temperature	+ 85°C
Weight	+ 2.5 grams Max.

(For additional package configurations, see Section 9)

Technical drawing of the rear view of the component. Dimensions include .500, .460, .820, .375 TYP.(2) PLACES, .310 TYP, .460, .610 (20.57), .095 (2.41), .180, .250, and .320. Features labeled include INPUT, DC BIAS, OUTPUT, GROUND, MOUNTING SURFACE, RF CONNECTORS SMA JACK (FEMALE) 2 PLACES, and MOUNTING HOLE 2-56 UNC 28 x 0.15 DEEP THREADED INSERT (4 PLACES).

Typical Performance



AH-29 93.3 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
100.000	-15.9	152.8	7.80	133.5	-14.90	-37.5	-35.9	-3.5
200.000	-16.3	161.3	7.70	120.8	-14.90	-43.0	-26.5	21.2
300.000	-14.3	170.8	7.70	108.5	-15.10	-48.8	-21.0	10.2
400.000	-14.0	172.3	7.40	95.5	-15.40	-53.8	-19.3	-22.2
500.000	-14.7	163.3	7.50	84.8	-15.20	-64.8	-19.5	-34.0
600.000	-13.2	166.5	7.40	73.0	-15.40	-61.5	-16.6	-59.5
700.000	-12.9	161.8	7.40	62.3	-15.40	-64.8	-16.1	-66.0
800.000	-13.0	152.3	7.50	48.8	-15.50	-69.0	-15.8	-68.3
900.000	-13.0	135.5	7.50	38.7	-15.30	-73.5	-16.0	-99.8
1000.000	-12.8	125.8	7.50	26.5	-15.30	-77.3	-16.9	-130.5
1100.000	-11.3	127.8	7.30	15.2	-15.40	-78.5	-15.5	-143.5
1200.000	-12.8	125.0	7.20	3.0	-15.40	-85.0	-14.9	-163.5
1300.000	-15.6	105.5	7.30	-9.5	-15.30	-90.3	-15.4	167.5
1400.000	-16.3	79.3	7.10	-23.2	-15.20	-94.8	-14.3	138.8
1500.000	-17.6	47.0	7.20	-35.0	-14.80	-99.8	-12.7	116.3

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
100.000	1.382	0.771	0.367	0.000	1.033
200.000	1.362	-0.092	0.267	0.354	1.099
300.000	1.478	-0.454	0.267	0.340	1.196
400.000	1.499	-1.567	-0.033	0.361	1.243
500.000	1.451	-0.429	0.067	0.299	1.237
600.000	1.560	-0.292	-0.033	0.326	1.347
700.000	1.586	0.846	-0.033	0.299	1.372
800.000	1.577	-0.767	0.067	0.375	1.387
900.000	1.577	1.121	0.067	0.278	1.377
1000.000	1.594	0.758	0.067	0.340	1.333
1100.000	1.748	1.396	-0.133	0.313	1.404
1200.000	1.594	1.033	-0.233	0.340	1.439
1300.000	1.398	0.421	-0.133	0.347	1.409
1400.000	1.362	-1.442	-0.333	0.382	1.478
1500.000	1.304	-1.304	-0.233	0.326	1.603