

10 to 100 MHz TO-8 Cascadable Amplifier

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- This block contains six black and white photographs of a mechanical component, likely a valve or actuator, from different perspectives. The top view shows a circular end face. The front view shows a rectangular body with a central vertical slot. The side view shows the profile of the component. The bottom view shows the underside of the rectangular body. The rear view shows the opposite side of the front view. The sixth view, located at the bottom right, shows another side view of the component.

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..... +125° C

Maximum DC Voltage..... +17.0V

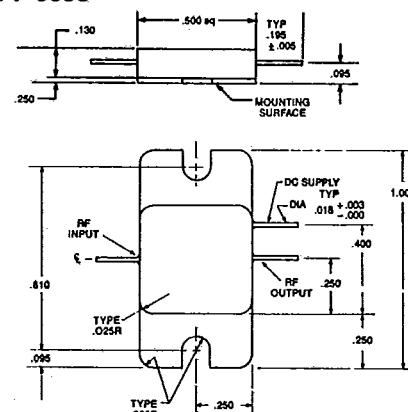
Maximum Continuous RF Input
Power +13dBm

Maximum Short Term RF Input
Power +50.0 mW (1 minute Max.)

Maximum Peak
Power +0.5W (3 useconds Max.)

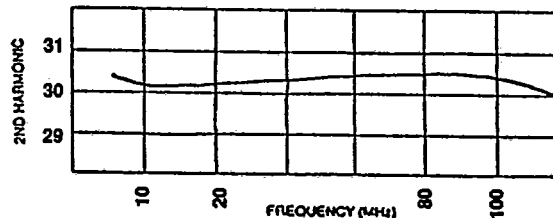
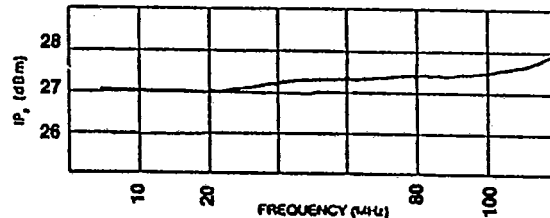
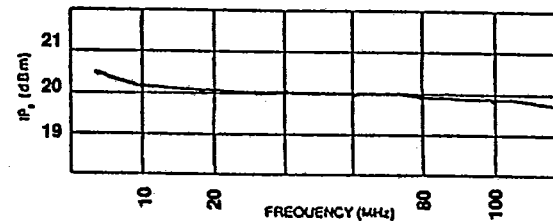
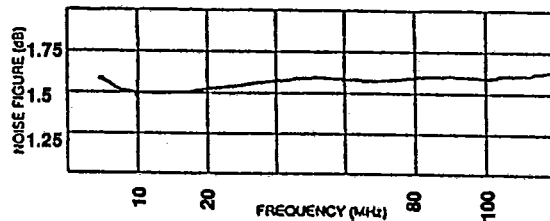
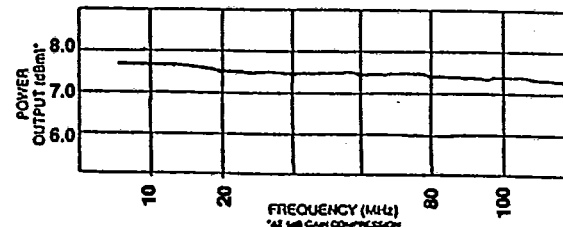
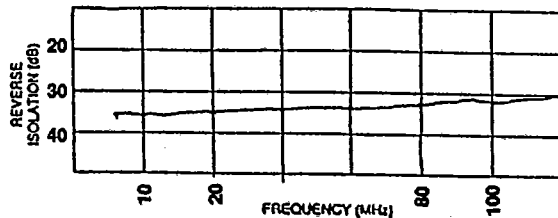
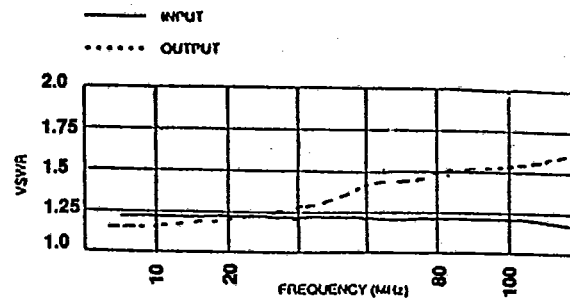
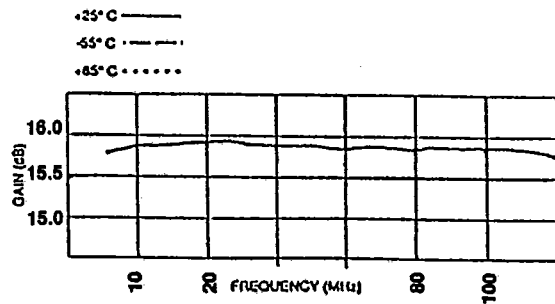
"X" Series Burn-In
Temperature Tc=+125° C

Weight +2.5 grams Max.

FPF-5858

AH-5858

Typical Performance



FREQUENCY MHz	RETURN LOSS INPUT (S11)		TRANS. GAIN FORWARD (S21)		TRANS. GAIN REVERSE (S12)		RETURN LOSS OUTPUT (S22)	
	dB	DEG	dB	DEG	dB	DEG	dB	DEG
5.00	-20.40	-27.5	15.83	-175.0	-36.20	8.5	-26.60	-55.8
10.00	-21.40	-13.0	15.87	179.8	-36.00	7.3	-33.20	-11.3
15.00	-21.10	-9.8	15.91	177.5	-35.80	8.0	-31.80	28.5
20.00	-21.20	-10.3	15.92	175.8	-35.80	9.8	-28.90	45.0
25.00	-21.30	-11.0	15.84	174.3	-35.70	12.3	-27.00	53.0
30.00	-21.40	-11.0	15.86	172.8	-35.60	13.5	-25.70	54.8
35.00	-21.40	-12.3	15.87	171.5	-35.50	14.3	-24.50	60.5
40.00	-21.50	-12.5	15.87	170.3	-35.40	16.5	-23.40	61.5
45.00	-21.60	-14.8	15.87	168.8	-35.30	17.5	-22.50	62.3
50.00	-21.60	-16.3	15.86	167.5	-35.20	20.3	-21.60	64.3
55.00	-21.80	-15.3	15.86	166.3	-35.00	21.3	-20.70	64.5
60.00	-21.80	-16.3	15.86	164.8	-35.00	22.8	-19.90	64.3
65.00	-21.80	-17.5	15.86	163.8	-34.70	24.0	-19.30	64.0
70.00	-21.80	-18.8	15.85	162.5	-34.50	25.0	-18.60	63.8
75.00	-21.90	-21.3	15.85	161.0	-34.50	25.8	-18.10	63.0
80.00	-22.00	-22.5	15.85	159.8	-34.20	28.3	-17.50	62.3
85.00	-21.90	-23.8	15.84	158.3	-34.10	28.3	-17.00	61.5
90.00	-22.00	-25.3	15.82	157.3	-33.90	30.8	-16.50	60.5
95.00	-22.00	-26.0	15.81	155.8	-33.80	30.8	-16.20	59.8
100.00	-22.10	-27.3	15.80	154.5	-33.40	31.0	-15.80	58.8