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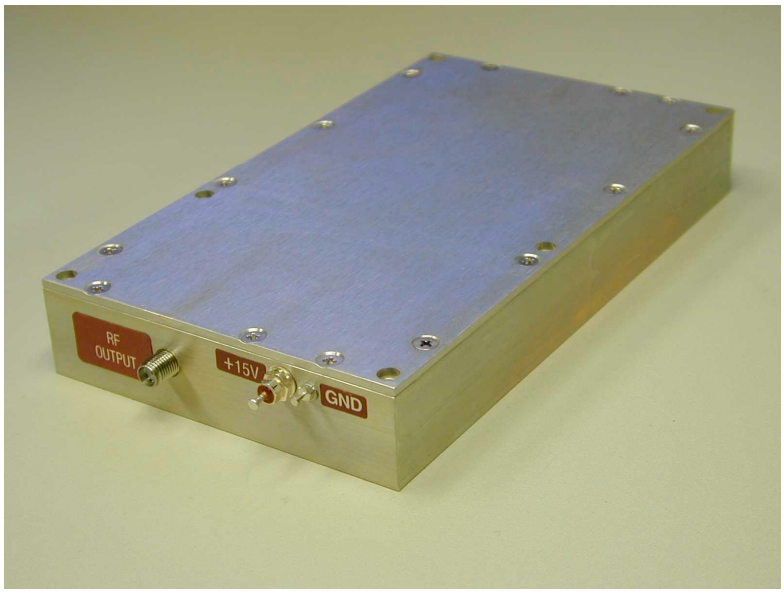
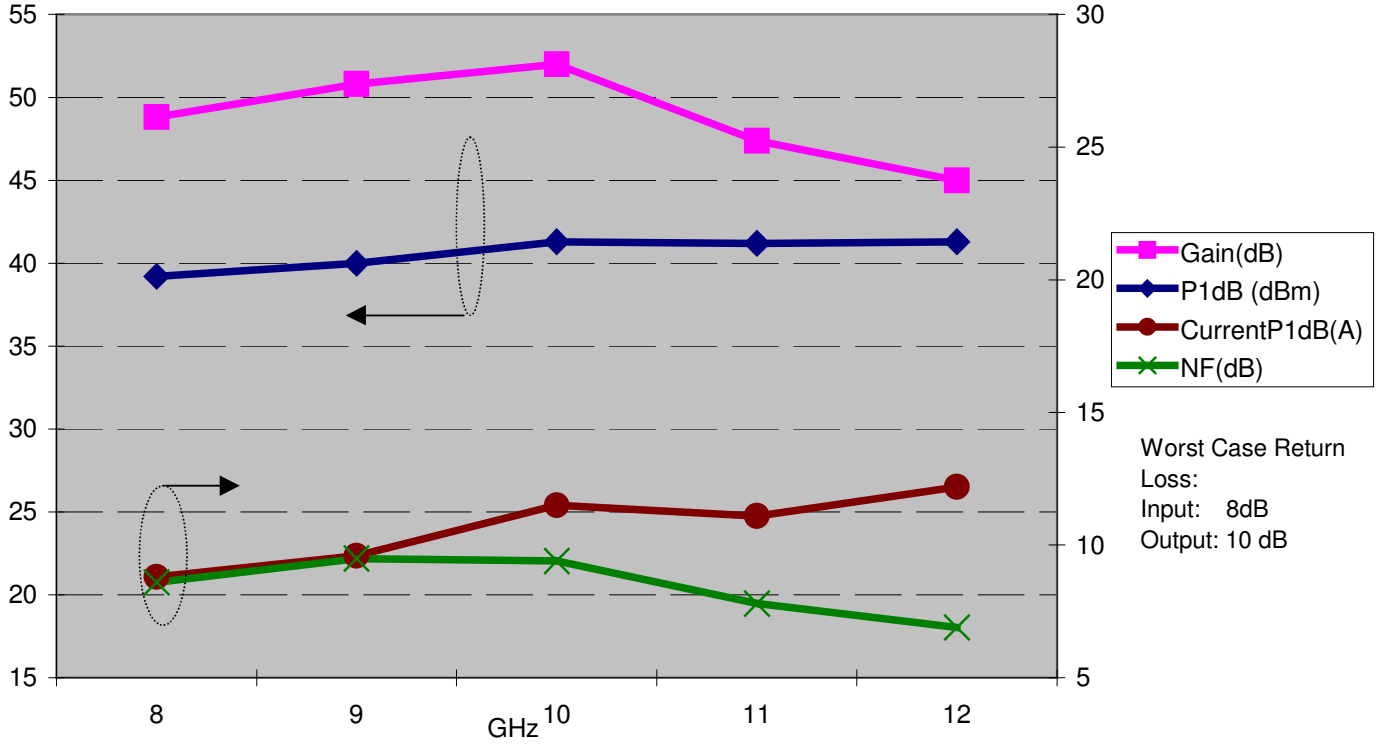
8-12 GHz High Power Amplifier



- 10W typ. From 8 to 12 GHz
- 45 dB Gain
- 45 dBm IP3
- 10 dB NF
- 14-16V DC Supply
- 13A Max
- -10 to 50 C^0 case
- Current/temp/voltage protection
- 163 x 95 x 25 mm

AMF-6B-08001200-110-40P

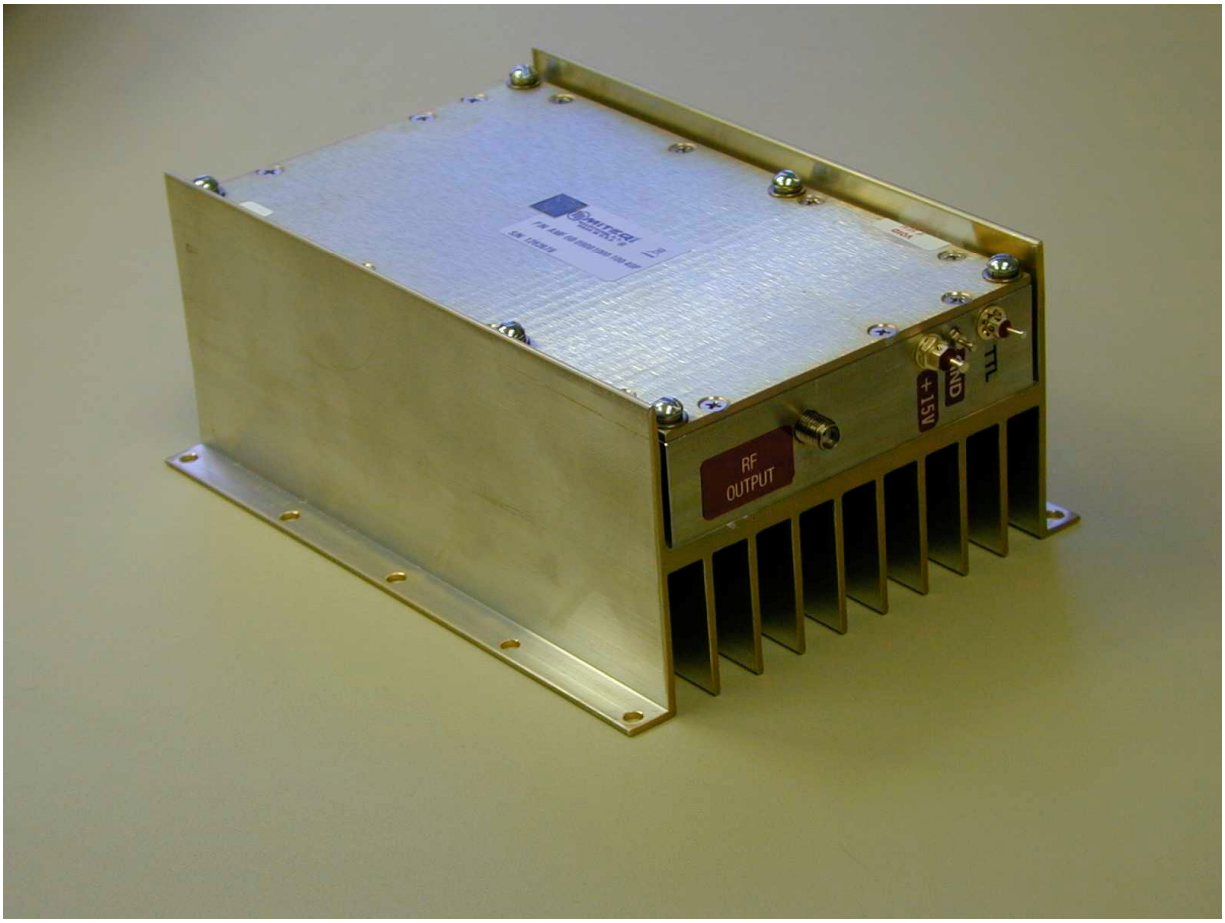


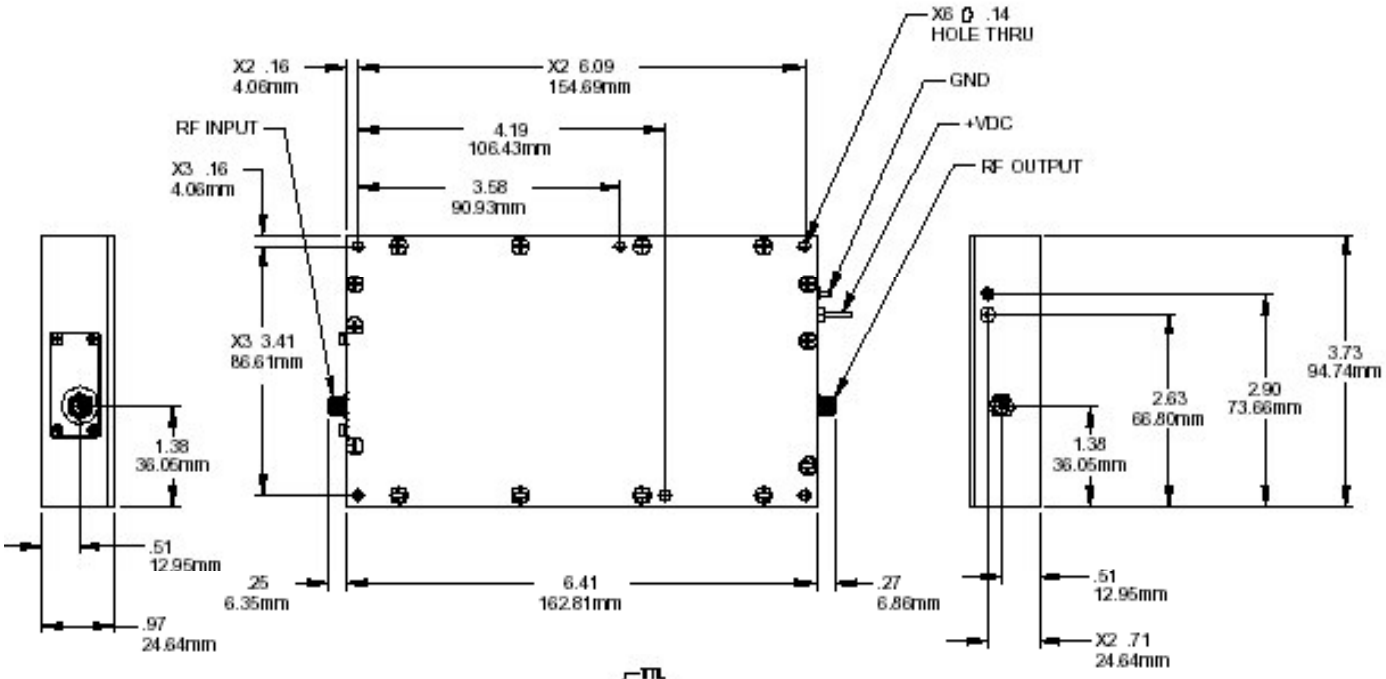
	NF (dB)		
Freq	Average	Max	Min
8.0	9.0	11.5	8.2
9.0	9.8	11.6	8.7
10.0	9.3	11.2	8.3
11.0	7.9	10.7	6.8
12.0	7.2	10.3	5.7
13.0	6.5	10.6	5.0
14.0	5.8	8.5	4.5
15.0	5.3	7.5	4.3
16.0	5.6	8.7	4.2
17.0	5.4	9.3	4.5
18.0	6.3	11.2	4.9
18.5	6.4	7.3	5.9

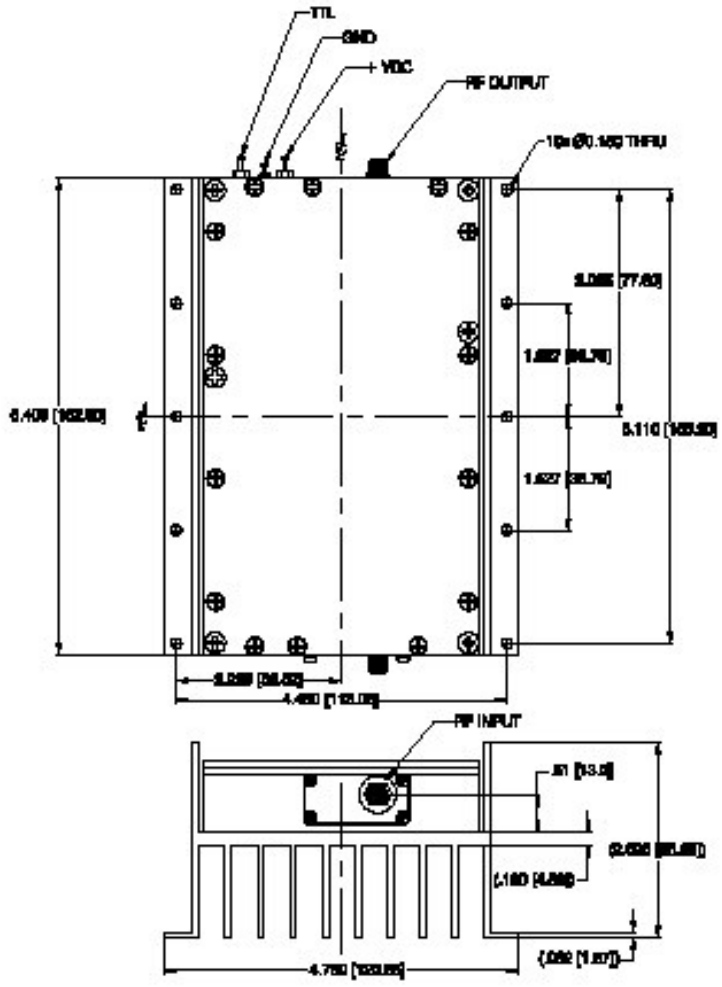
	P1dB (dBm)		
Freq	Average	Min	Max
8.0	39.0	37.8	40.5
9.0	40.2	39.2	41.0
10.0	41.3	40.0	42.2
11.0	41.1	40.1	41.7
12.0	40.8	40.0	41.5
13.0	41.3	40.0	42.6
14.0	40.6	39.5	41.6
15.0	40.5	39.6	41.4
16.0	39.5	38.5	41.1
17.0	39.1	37.8	40.3
18.0	39.1	37.6	40.4
18.5	38.5	37.8	39.0

MITEQ INC. introduces a new addition to its family of broad-band high power amplifiers. AMF-6B-08001200-110-40P is a connectorized high power amplifer, covering 8-12GHz and delivering approximately 10W of power. The SMA connectorized Aluminum housing is 25 mm high, 163 mm long and 95 mm wide. It is intended for bolting to a flat cooling surface or fins. Housing is environmentaly sealed, EMI shielded and hermetic sealing option is also available. PA includes reverse voltage, over current and over temperature protection in addition to full inernal regulation . A TTL control is pin and heatsink is optional.

Nominal small-signal gain is 47 dB while noise figure is close to 10 dB at lower half of the band and close to 8 dB at the upper half of the band. Current draw is nominally 12A at P1dB from 14 to 16 VDC of supply. Output IP3 is a typical of 45 dBm across the full band.




X6 Ø .14
HOLE THRU
X2 .16
4.06mm
X2 6.09
154.69mm
GND
+VDC
RF INPUT
4.19
106.43mm
X3 .16
4.06mm
3.58
90.93mm
RF OUTPUT
X3 3.41
86.61mm
3.73
94.74mm
2.63
66.80mm
2.90
73.66mm
1.38
36.06mm
1.38
36.06mm
.51
12.95mm
.25
6.35mm
6.41
162.81mm
.27
6.86mm
.51
12.95mm
.97
24.64mm
X2 .71
24.64mm


TTL
GND
+VDC
RF OUTPUT
RF INPUT