

Electrical Specifications: ² T_A = -55°C to +85°C Case Temperature

Parameter	Test Conditions	Frequency	Units	Min.	Typ.	Max.
Gain	@+25°C	50 MHz	dB	12.0	12.5	13.0
Frequency Response	—	10 - 100 MHz	dB	—	—	±0.6
Gain Variation with Temperature	—	10 - 100 MHz	dB	—	—	±0.6
1 dB Compression	Output Power	10 - 100 MHz	dBm	+13	—	—
Noise Figure	—	10 - 100 MHz	dB	—	—	1.6
Reverse Transmission	—	10 - 100 MHz	dB	—	-15	-14
VSWR	—	10 - 100 MHz	Ratio	—	—	2.0:1
Output IP ₂	Two-Tone inputs up to 0 dBm	10 - 100 MHz	dBm	+40	—	—
Output IP ₃	Two-Tone inputs up to 0 dBm	10 - 100 MHz	dBm	+26	—	—
Vbias	—	—	VDC	+14.5	+15.0	+15.5
Ibias	Vbias = +15.0 VDC	—	mA	—	11	15
Power Dissipation	@ +15 V Bias	—	mW	—	165	—

2. All specifications apply when operated at +15 VDC, with 50 ohms source and load impedance.

S-Parameter Data

Frequency (MHz)	S11 MAG/ANG	S21 MAG/ANG	S12 MAG/ANG	S22 MAG/ANG
10	0.07/165	4.06/66	0.18	0.09/169.1
20	0.09/-166.8	4.13/-6.5	0.17	0.09/-159.2
30	0.08/-151.5	4.18/-15.8	0.17	0.09/-129.5
40	0.10/-146.9	4.20/-24.0	0.17	0.11/-120.3
50	0.11/-147.9	4.23/-32.2	0.17 1	0.12/-117.7
60	0.11/-152.0	4.19/-39.8	0.17	0.13/-118.5
70	0.12/-159.7	4.20/-47.7	0.17	0.14/-120.3
85	0.12/-171.2	4.17/-59.5	0.16	0.14/-122.6
100	0.12/174.1	4.15/-72.1	0.16	0.15/-123.6

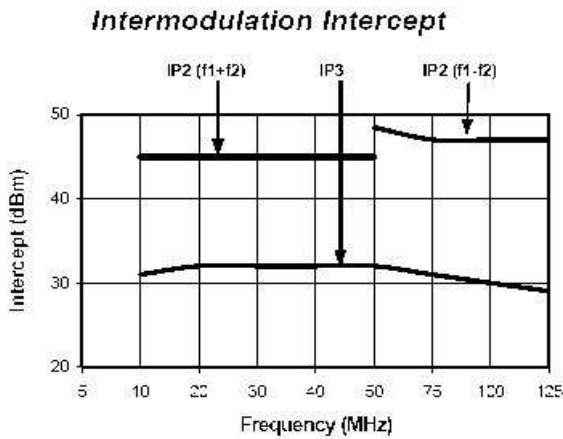
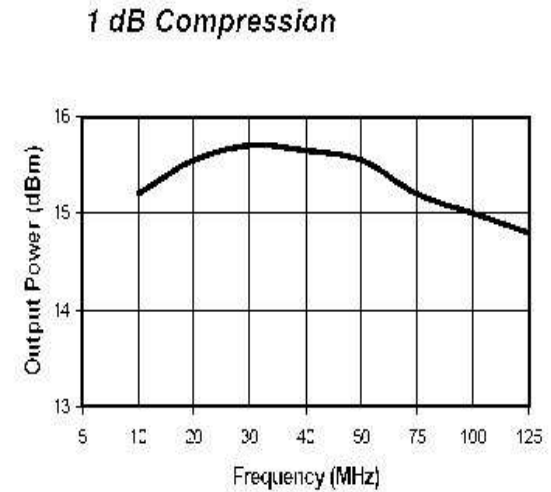
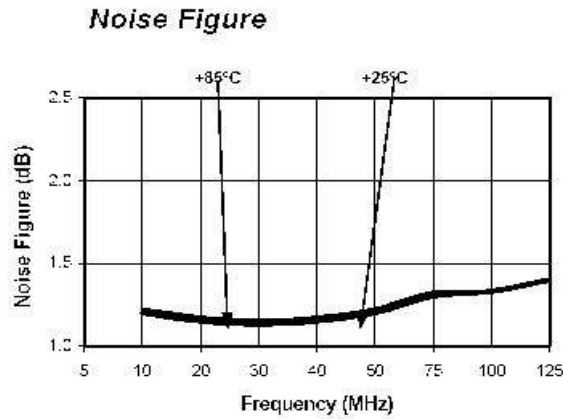
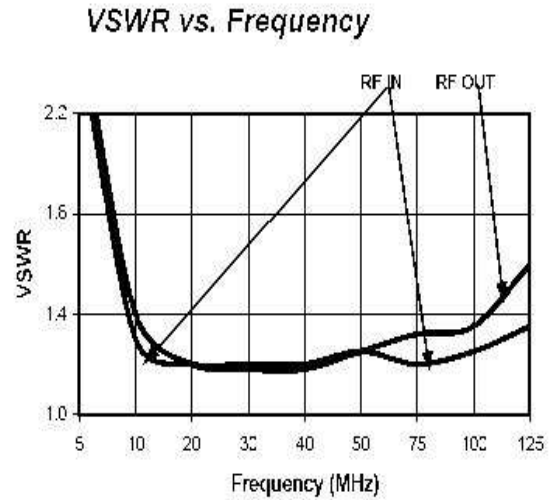
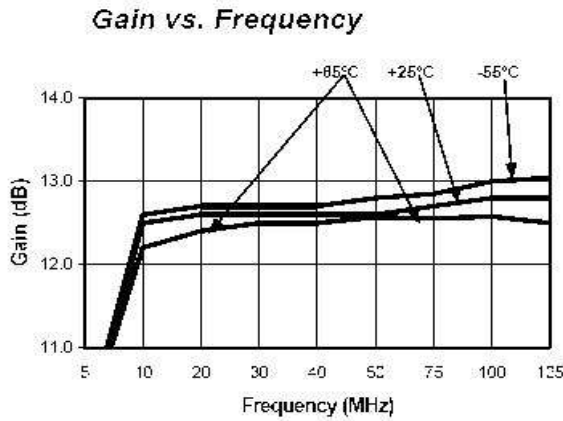
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Typical Performance Curves



Ordering Information

Part Number	Package
AM-162 PIN	TO-8-1
AMC-162 SMA **	C-6
AMS-162 PIN	SF-1

** The connectorized version is not RoHS compliant.