

tyco / *Electronics*

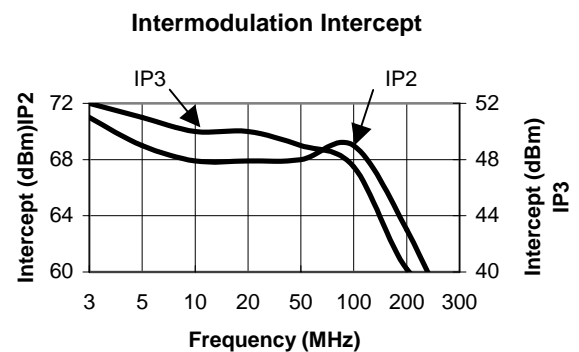
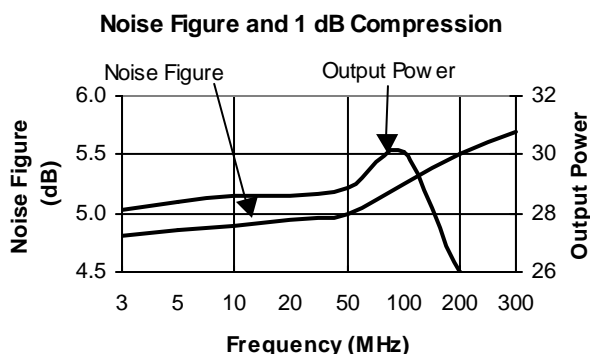
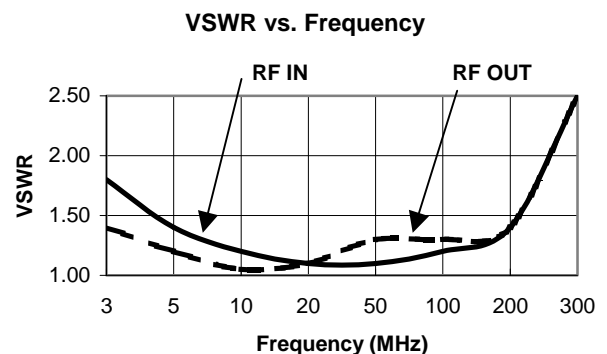
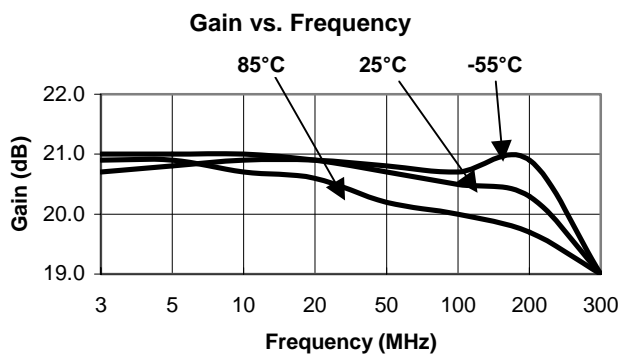
Electrical Specifications^{3,4} $T_A = -55^\circ\text{C}$ to $+85^\circ\text{C}$ Case Temperature

Parameter	Test Conditions	Frequency	Units	Min	Typical	Max
Gain	50 MHz @ $+25^\circ\text{C}$	50 MHz	dB	19.2	20.4	20.8
Frequency Response	—	10 - 200 MHz	dB	—	—	± 0.8
Gain Variation with Temperature	—	10 - 200 MHz	dB	—	—	± 1.0
1 dB Compression	Output Power	10 - 200 MHz 10 - 70 MHz	dBm dBm	+23 +25	— —	— —
Noise Figure	—	10 - 200 MHz	dB	—	—	7.0
Reverse Transmission	—	10 - 200 MHz	dB	—	-28	-26
VSWR	—	10 - 200 MHz 10 - 70 MHz	Ratio Ratio	— —	— —	2.5:1 1.7:1
Output IP_2	Two-tone inputs up to +10 dBm	10 - 200 MHz 10 - 70 MHz	dBm dBm	+53 +57	— —	— —
Output IP_3	Two-tone inputs up to +10 dBm	10 - 200 MHz 10 - 70 MHz	dBm dBm	+36 +44	— —	— —
Vbias	—	—	V	14.25	15	15.75
Ibias	2.7W Typical	—	mA	—	180	220

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

4. Heat Sinking: Operation at case temperature above 95°C is not recommended. Heat sinking adequate to dissipate 2.7W must be provided in use. The flange should be screwed down to the heat sink, which should be RF ground.

Typical Performance



Specifications subject to change without notice.

V 4.0

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