

Features:



- 1.3 dB NF
- +44 dBm IP3
- 14.0 dB Gain
- +26 dBm P1dB
- Single Positive Bias
- Leadless Surface Mount Package

The MPS-081017P-02, is a low cost high linearity modular amplifier. The superior IP3 makes this device suitable for ultra low distortion for base station driver applications. Excellent ACPR performance provides an edge for transmitting 2G, 2.5G, 3G standards with complex modulations, such as GSM, TDMA, EDGE, UMTS, WCDMA, CDMA2000, and TD-SCDMA applications.

Electrical Specifications @ 25°C, $V_{dd} = 6.0$ to 7.0 V*, $Z_o = 50$ ohms

SYMBOL	PARAMETERS	Min	Typical	Max	Unit
Freq.	Frequency Range	800		960	MHz
SSG	Small Signal Gain	13.0	14.0		dB
P1 dB	Pout at 1 dB Comp Point		+26.0		dBm
IP3	Third-Order Intercept		44.0		dBm
NF	Noise Figure		1.3	1.7	dB
VSWR	VSWR (Input/Output)		2.0:1		
GOF	Gain Var. over 40 MHz		± 0.2	± 0.5	dB
GOT	Gain Var. over Temp		-0.015		dB/°C
Idd	DC Current		330	400	mA

*Vdd = 6.0 – 7.0 volts for best operation.

Absolute Maximum Ratings

Maximum Bias Voltage	7.5 V
Maximum Continuous RF Input Power	+25 dBm
Maximum Peak Input Power	+27 dBm
Maximum Case Operating Temperature	+85 °C
Maximum Storage Temperature	- 65 to + 150 °C



MPS-081017P-02

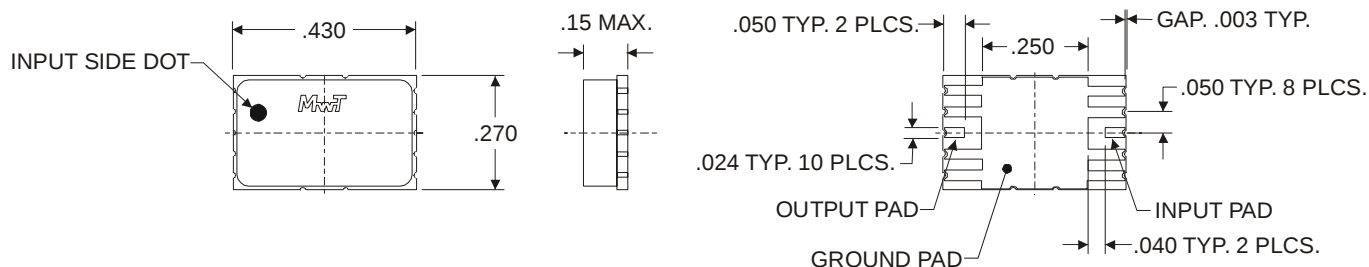
800 to 960 MHz Amplifier

High Dynamic Range

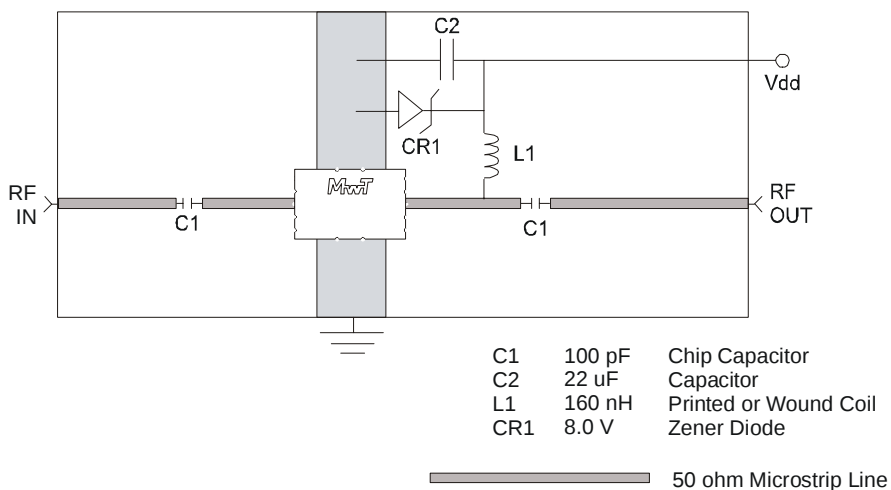
Low Noise / Superior IP3

Preliminary Data Sheet

Outline Diagram



Application Circuit



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