

ELECTRICAL SPECIFICATIONS

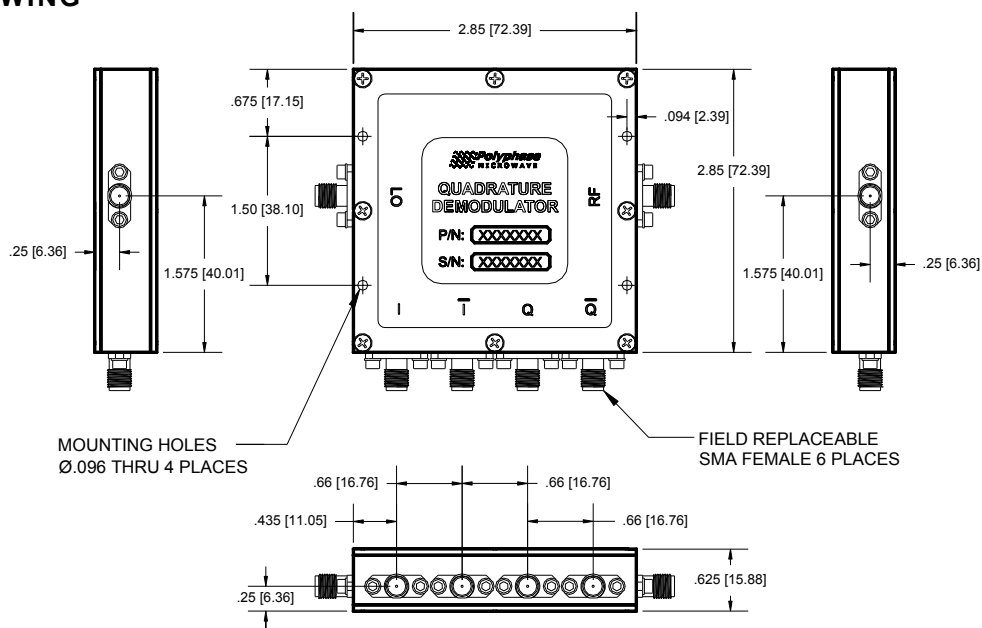
Test Conditions: +25°C, LO = +15 dBm, RF = 0 dBm @ LO+100 kHz unless otherwise noted.

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Frequency Range ¹		2000		4000	MHz
LO Power		+13	+15	+16	dBm
LO VSWR			1.5:1		Ratio
RF VSWR			2.0:1		Ratio
I/Q Baseband Filter Bandwidth ²	<1 dB Flatness	DC		275	MHz
I/Q Baseband Filter Stop Band ²	>25 dB Rejection	450		5000	MHz
I/Q Differential Output Impedance			100		Ω
I/Q Baseband DC Offset	Into 100 Ω load	-7		+7	mV
Conversion Loss			8	10.5	dB
Noise Figure	No RF input drive		8.5		dB
Input IP2			+65		dBm
Input IP3	2-Tone, Δf = 1 MHz		+16		dBm
Input P1dB			+6		dBm
LO-RF Isolation	No RF input drive		60		dB
LO-IF Isolation	No RF input drive		70		dB
Amplitude Imbalance		-0.6	±0.2	+0.6	dB
Quadrature Phase Error		-6	±2.5	+6	Degree
Operating Temperature Range		-40		+85	°C
LO/RF Input Power w/o Damage				+25	dBm

Notes:

1. When RF > LO frequency: $I = \cos(t)$, $\bar{I} = -\cos(t)$, $Q = \sin(t)$, $\bar{Q} = -\sin(t)$
2. Standard lowpass filters. Contact factory for other options.

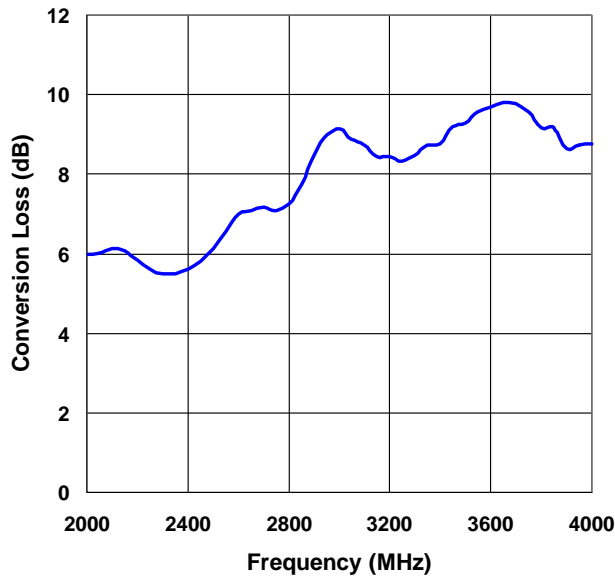
CASE DRAWING



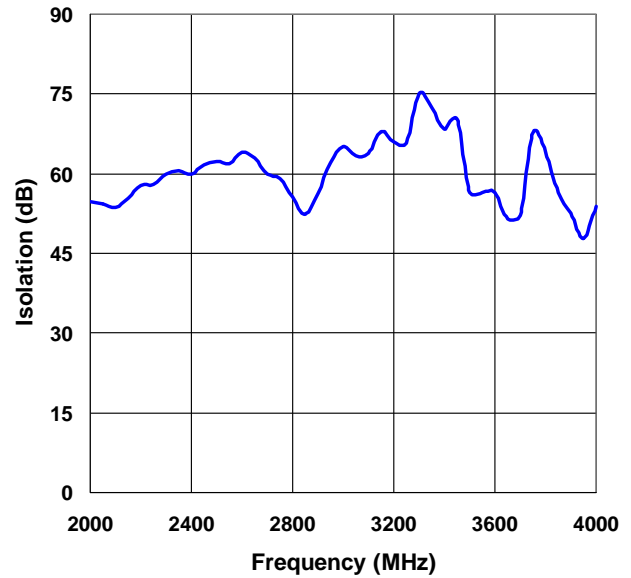
TYPICAL PERFORMANCE CHARACTERISTICS

Standard Test Conditions: +25°C, LO = +15 dBm, RF input = 0 dBm @ LO+100 kHz.

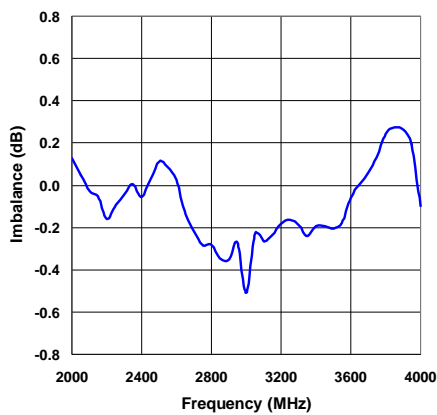
Conversion Loss



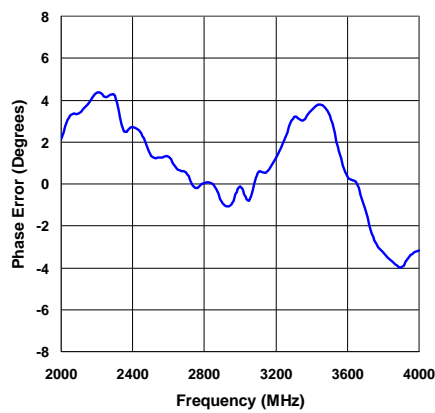
LO-RF Isolation



Amplitude Imbalance



Quadrature Phase Error



DC Offsets

