

ELECTRICAL SPECIFICATIONS

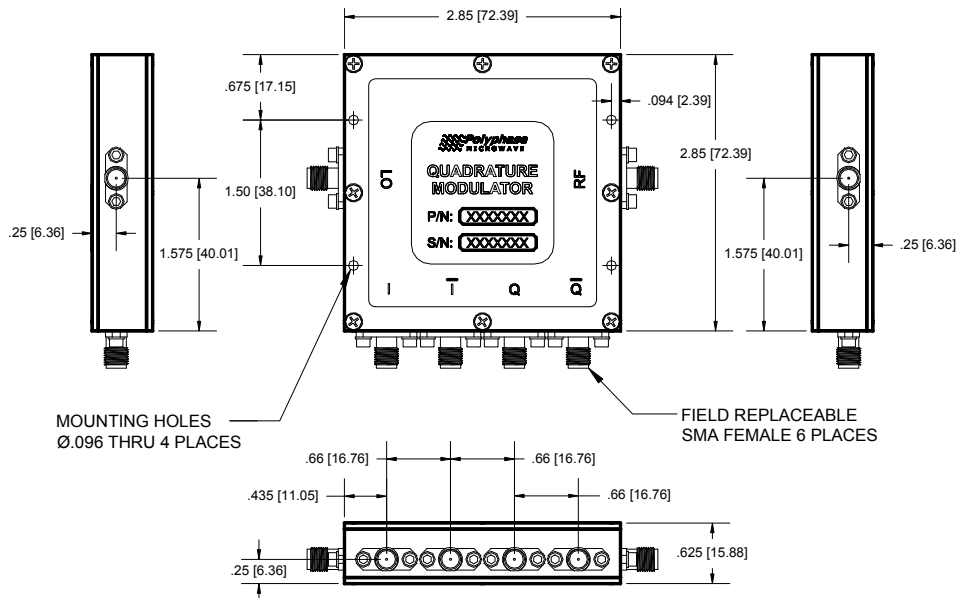
Test Conditions: +25°C, LO = +14 dBm, I/Q inputs = 0 dBm total @ 100 kHz unless otherwise noted.

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Frequency Range		1200		1400	MHz
LO Power		+13	+14	+16	dBm
LO VSWR			1.6:1		Ratio
RF VSWR			3.0:1		Ratio
I/Q Baseband Filter Bandwidth ¹	<1 dB Flatness	DC		275	MHz
I/Q Baseband Filter Stop Band ¹	>25 dB Rejection	450		5000	MHz
I/Q Differential Input Impedance			100		Ω
Conversion Loss			7	9	dB
Input IP3	2-Tone, Δf = 1 MHz		+18		dBm
Input P1dB			+8		dBm
LO Leakage at RF Port	No RF input drive		-50	-40	dBm
LO-IF Isolation	No RF input drive		70		dB
Sideband Suppression ²			-42	-32	dBc
Amplitude Imbalance		-0.2	±0.05	+0.2	dB
Quadrature Phase Error		-2	±1	+2	Degree
Output Noise Floor			-173		dBm/Hz
Operating Temperature Range		-40		+85	°C
LO/RF Input Power w/o Damage				+25	dBm

Notes:

1. Standard lowpass filters. Contact factory for other options.
2. For upper sideband operation: $I = \cos(t)$, $\bar{I} = -\cos(t)$, $Q = \sin(t)$, $\bar{Q} = -\sin(t)$

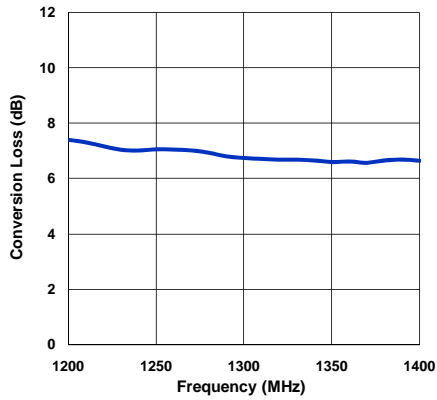
CASE DRAWING



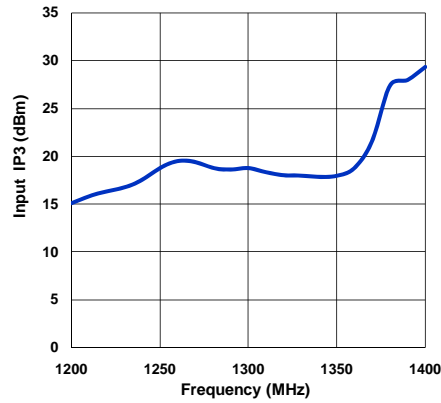
TYPICAL PERFORMANCE CHARACTERISTICS

Standard Test Conditions: +25°C, LO = +14 dBm, I/Q inputs = 0 dBm total @ 100 kHz.

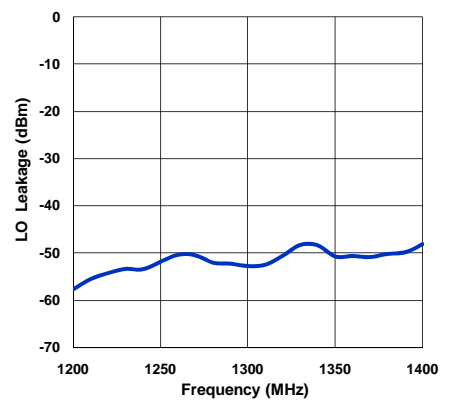
Conversion Loss



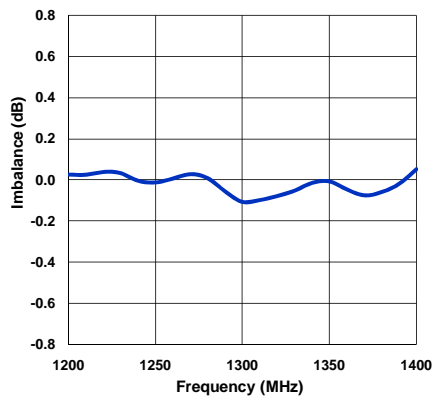
Input IP3



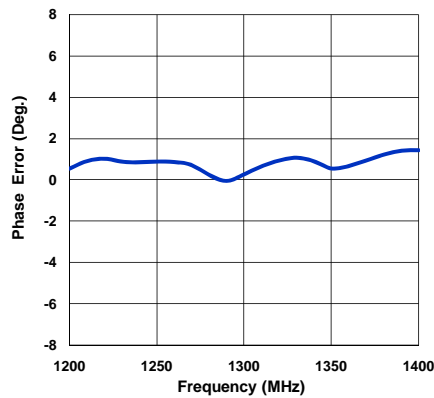
LO Leakage at RF Port



Amplitude Imbalance



Quadrature Phase Error



Sideband Suppression

