

Non-Catalog Model

Frequency Mixer

Level 7 (LO Power +7 dBm)

GRA-1

Important Note

This is a non-catalog model and can be manufactured on specific request. Pricing and delivery information can be supplied upon request.



Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : D09

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		Min.	Typ.	Max.	Units
Frequency	LO (fL to fU)	5		500	MHz
	RF (fL to fU)	5		500	MHz
	IF	0		500	MHz
Conversion Loss	mid band		6.0	7.0	dB
	Total Range			8.5	dB
LO-RF Isolation	Low Range	45	50		dB
	Mid Range	30	45		dB
	Upper Range	25	35		dB
LO-IF Isolation	Low Range	35	45		dB
	Mid Range	25	40		dB
	Upper Range	20	30		dB
1 dB Comp. Input Power			+1		dBm

Notes: Low Range = [fL to 10fL]
mid band = [2fL to fU/2]

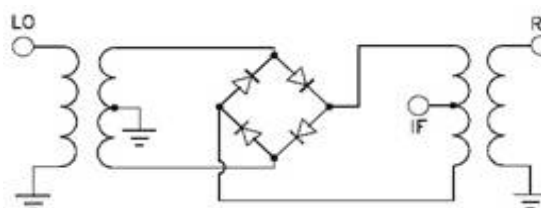
Mid Range = [10fL to fU/2]

Upper Range = [fU/2 to fU]

MAXIMUM RATINGS	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
IF Current	40mA

PIN CONNECTIONS	
LO	1
RF	6
IF	4
GROUND	2, 3, 5

Electrical Schematics

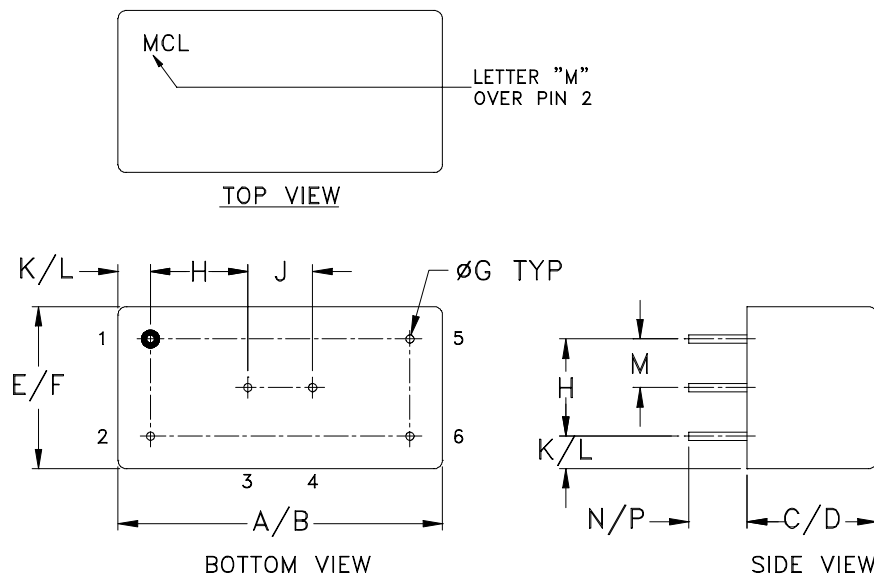


Case Style

D

D08
D09

Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L	M
D08	1.000	1.025	.390 (9.91)	.430 (10.92)	.500 (12.70)	.525 (13.34)	.025 (.64)	.300 (7.62)	.200 (5.08)	.09 (2.29)	.13 (3.30)	.150 (3.81)
D09			.240 (6.10)	.280 (7.11)								

CASE#	N	P	WT.GRAMS
D08	.20 (5.08)	.14 (3.56)	8.5
D09			7.5

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Header material: C.R.S.
Pin material: #52 alloy.
Cover material: Cupro-Nickel.
- Pin finish: Electro Tin-Silver.
- Tolerance on pin diameter $\pm .005$ inch.
- Glass meniscus 0.015 inch max.
- Blue bead indicates Pin 1. Pin numbers do not appear on unit, for reference only.

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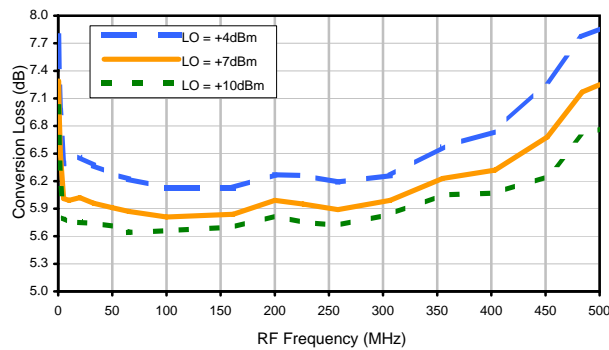
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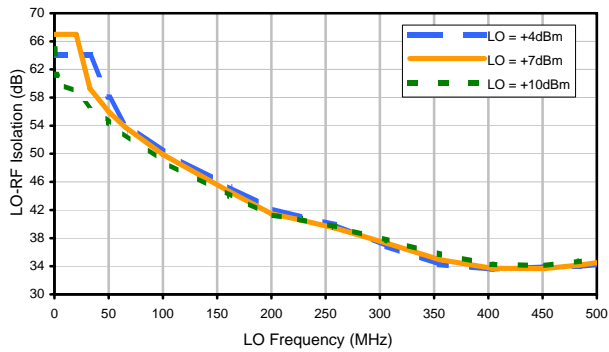
Mini-Circuits ISO 9001 & ISO 14001 Certified

Typical Performance Curves

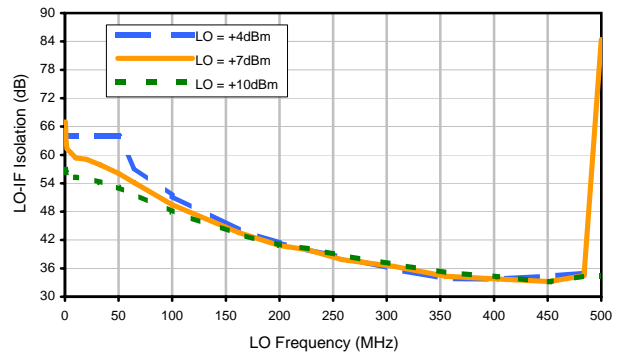
Conversion Loss



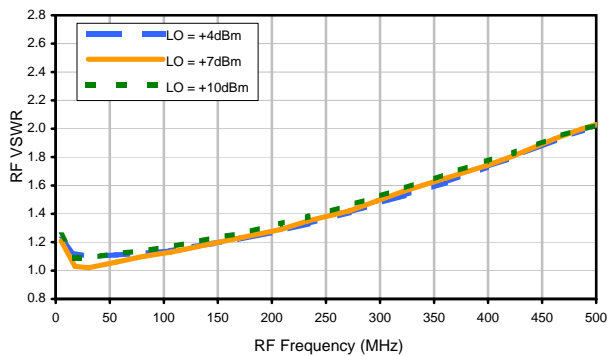
LO-RF Isolation



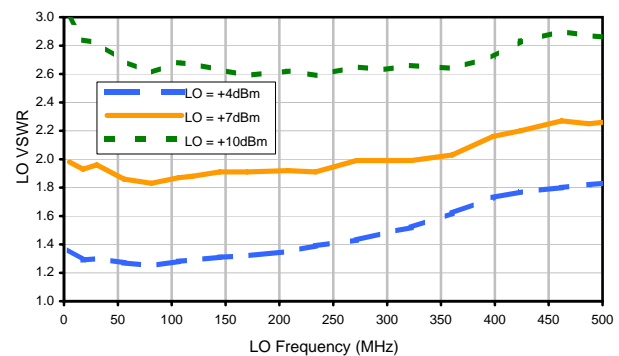
LO-IF Isolation



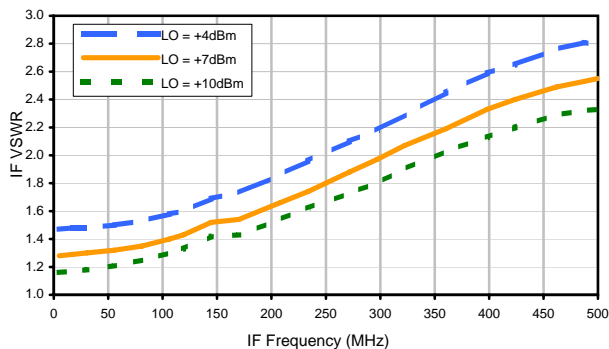
RF VSWR



LO VSWR



IF VSWR



Max. DC Output

