

IR8596MF2/30 IQ Mixer

8.5 to 9.6 GHz operation



Features
Broadband Frequency Operation
Excellent Conversion Loss
High port-to-port isolation
Frequency Converter Applications

Maximum Ratings	
Operating Temperature	-40 to +85°C
Storage Temperature	-65 to +150°C
Peak I/P Power For Any Port	+23 dBm Peak
Peak I/P Power For All Ports	+26 dBm Peak
Peak I/P Current @ +25°C	100mA

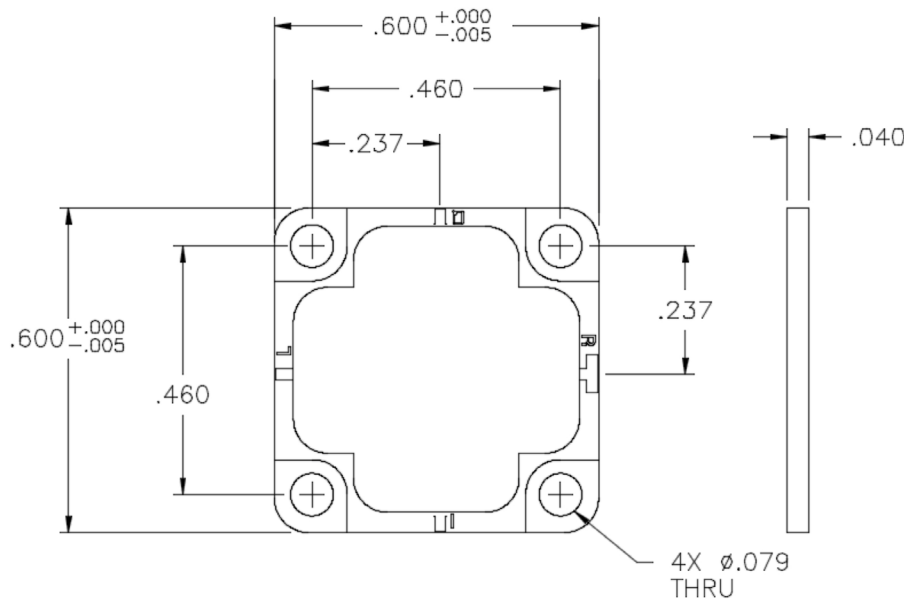
Product Export Classification
ECCN: EAR 99 (unless otherwise specified)
HTS: 8541.10.0000

Parameters	Freq. (GHz)	Minimum (dB)	Typical (dB)	Maximum (dB)	Units	Conditions
Conversion Loss						
RF Input	8.5 to 9.6		6.5	7.0	dB	
LO Input	8.53 to 9.63					
IF Output	0.03					
VSWR	LO&IF RF			2.0:1		
Isolation						
L-R Isolation		25.0	30.0		dB	
L-IQ Isolation		25.0	28.0		dB	
RF-I/Q						
Spurious (In-band) 4IF						
Input IP3						
1dB Compression Point			+1.0		dBm	
LO Drive				+11.0	dBm	
Image Rejection		18.0	23.0		dB	
Amplitude Match						
Phase Match						

NOTES:

1. Typical values are measured at +25°C and are not guaranteed.

Package Outline: F2



DISCLAIMER: Subject to change without notice. Rev(-) 09/5/19