

I&Q NETWORK - IQF-20E-100 SQ

TECHNICAL FEATURE

FEATURES

- Space Qualified
- High Accuracy
- Hi-Rel Flatpack



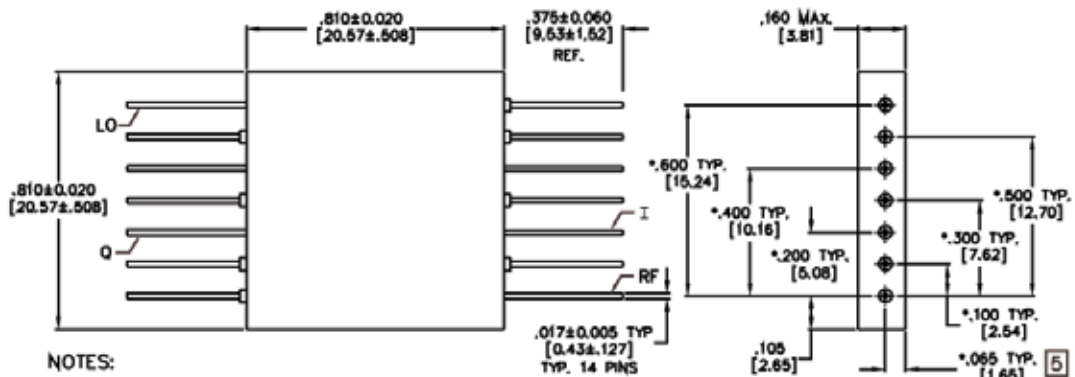
PERFORMANCE

LO/RF Bandwidth	100 MHz
RF Frequency	100 ± 10 MHz
Phase Balance	90° ± 2°
Amplitude Balance	0.2 dB
Conversion Loss.....	10 dB typ., 12 dB max.
VSWR RF/LO	1.3:1 typ., 1.5:1 max.
LO Power Level.....	+10 - 13
RF Power Level.....	0 dB max.
Video Bandwidth	DC - 10 MHz
Input Intercept	+14 dBm min.
Impedance.....	50 Ohm nom.
Operating Temperature	-55° to +85° C

DESCRIPTION

I&Q Networks are integrated devices that produce two quadrature-phased equal amplitude signals when fed RF and LO signals. In the IQF Series, specially optimized circuits are used to provide superior performance across very wide bandwidths and high data rates. This unit has been designed, manufactured and qualified per Merrimac document CENG-0001, "Standard Design Requirements for Space Qualified Devices".

PACKAGE OUTLINE



NOTES:

1. TOLERANCE ON 3 PLACE DECIMALS ±.010 [.25mm] EXCEPT AS NOTED.
2. MAX. IS LARGEST DIMENSION ALLOWED.
3. DIMENSIONS = INCHES [mm]
4. METRIC EQUIVALENTS ARE TO THE NEAREST .01mm.
5. ALL LEADS TO BE WITHIN ±.010 [.25mm] OF EACH OTHER AT THIS DIMENSION.
6. DIMENSIONS MARKED WITH * APPLY ONLY AT BODY
7. ALL UNMARKED PINS ARE CASE GROUND.