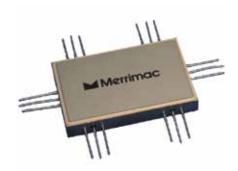
I&Q NETWORK - IQF-9L-500 SQ

TECHNICAL FEATURE

FEATURES

- · Space Qualified
- 30 1000 MHz
- · Ultra Wideband
- Hi-Rel Flatpack

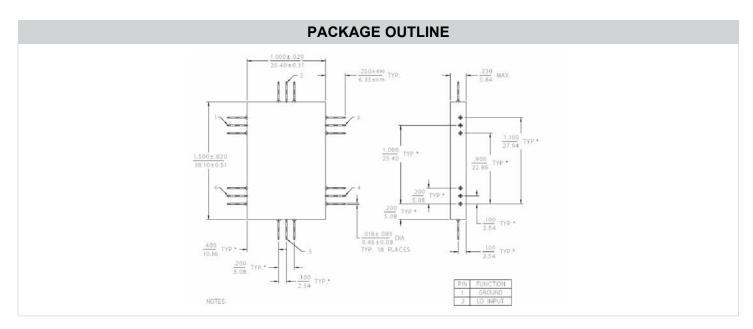


PERFORMANCE

LO/RF Bandwidth	30 - 1000 MHz
Phase Balance	90° ± 7°
Amplitude Balance	0.75 dB
Conversion Loss	10 dB typ., 12 dB max.
VSWR RF/LO	1.3:1 typ., 1.7:1 max.
LO Power Level	+10 - 13
RF Power Level	0 dB max.
Video Bandwidth	DC - 100 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-9L, specially designed lead/lag circuits are used to provide superior performance across very wide bandwidths as is required in spread spectrum communications systems. This has been designed, manufactured and qualified per Merrimac document CENG-0001, "Standard Design Requirements for Space Qualified Devices".



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