

HYB-16
Wideband
Non-transforming
180°, 3 dB Hybrid
1-200 MHz



DESCRIPTION

The HYB-16 is a miniature flatpack, 3 dB hybrid where ports A-B and C-D are mutually isolated. This hybrid features very high isolation and outstanding amplitude and phase balance. All four ports have 50 ohms impedance.

GUARANTEED MINIMUM PERFORMANCE DATA

Isolation Ports A-B (dB)	25
-1 dB Bandwidth, MHz	1-200
Midband insertion loss dB	.5
Amplitude unbalance dB	.5
Phase unbalance°	3
VSWR (R = 50Ω)	1.5

ABSOLUTE MAXIMUM RATINGS:

Input power 1 w.
Temperature range - 54°C to + 100°C

ENVIRONMENTAL CONDITIONS

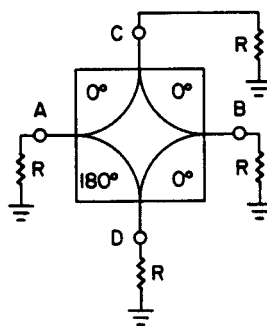
GUARANTEED ENVIRONMENTAL PERFORMANCE:

All units are designed to meet their specifications over - 54°C to + 100°C and after exposure to any or all of the following tests per MIL-STD-202E.

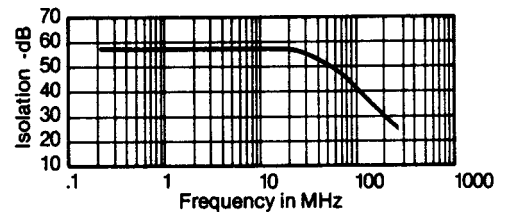
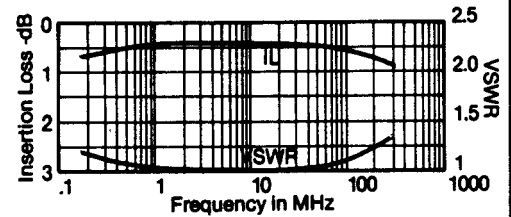
Exposure	Method	Test Condition
Thermal Shock	107D	B
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	C
Random Vibration (15 minutes per axis)	214	IIF
Solderability	208C	
Terminal Strength	211A	C
Resistance to Soldering Heat	210A	B

Sealed units, meet the requirements of Method 106D of MIL-STD-202E when exposed to humidity.

FUNCTIONAL SCHEMATIC



TYPICAL PERFORMANCE



PACKAGE

CASE MATERIAL:

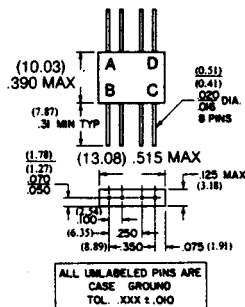
F15 Kovar per ASTM Standard F-15-68, (Chemical composition per MIL-STD-1276, Type K)

FINISH:

Plating, all metal parts: gold per MIL-G-45204, Type I, Grade A, Class 1 over nickel per MIL-C-26074, Class 1

LEADS:

Kovar per MIL-STD-1276, Type K



Specifications subject to change without notice.