



## DESCRIPTION

The HYB-1 offers excellent isolation and balance over the 1 to 300 MHz frequency range. Pins 1-6 and 2-3 are mutually isolated. HYB-1 is packaged in molded Diallyl Phthalate. Pins 1-6 are 50 ohms while the output Pins 2-3 have 100 ohms impedance.

## GUARANTEED MINIMUM PERFORMANCE DATA

Isolation (dB) pins 1-6	17
-1 dB Bandwidth, MHz	1-300
Midband insertion loss dB	.9
Amplitude unbalance dB	1
Phase unbalance°	15
VSWR (R = 50Ω)	1.75

## ABSOLUTE MAXIMUM RATINGS:

Input power 2 w.  
Temperature range - 54°C to + 100°C

## ENVIRONMENTAL CONDITIONS

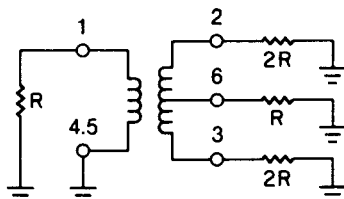
### GUARANTEED ENVIRONMENTAL PERFORMANCE:

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.

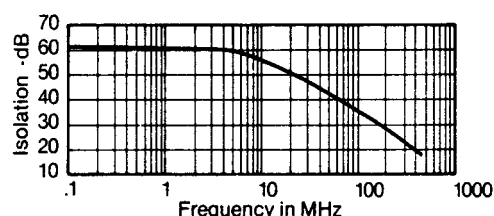
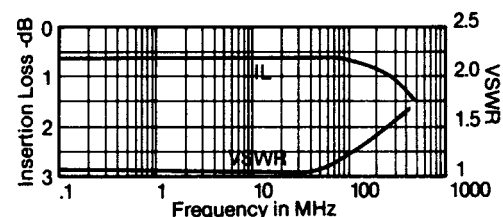
Exposure	Method	Test Condition
Thermal Shock	107D	B
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	C
Random Vibration	214	IIF
(15 minutes per axis)		
Solderability	208C	
Terminal Strength	211A	C
Resistance to Soldering Heat	210A	B

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

## FUNCTIONAL SCHEMATIC



## TYPICAL PERFORMANCE



## PACKAGE

### MATERIAL:

Header: Diallyl Phthalate  
Leads: Phosphor Bronze, Grade A, Spring temper

### FINISH:

Header: Glossy red Diallyl Phthalate  
Leads: Silver plated per QQ-S-365A, Type I, Grade B

