

HYB-1 Wideband Impedance Transforming 180° 3 dB Hybrid 1-300 MHz



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

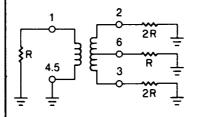
GUARANTEED ENVIRONMENTAL PERFORMANCE:

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

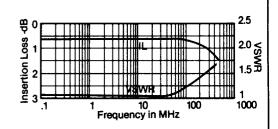
	Test
Method	Condition
107D	В
105C	G
204C	D
213B	С
214	IIF
208C	
211A	С
210A	В
	107D 105C 204C 213B 214 208C 211A

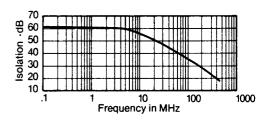
Sealed units, meet the requirements of Method 106D of MIL-STD-202E when exposed to humidity.

FUNCTIONAL SCHEMATIC



TYPICAL PERFORMANCE





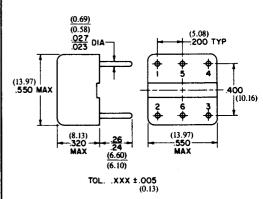
PACKAGE MATERIAL:

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



Specifications subject to change without notice.

8.10.04 Rev. A