HF-110/HF-122 Wideband RF/Pulse Transformers .1-500 MHz/.1-700 MHz





DESCRIPTION

The HF series is a line of eight transformers offering all popular configurations in our popular six pin molded epoxy package. These transformers are high reliability devices designed to meet MIL-T-55631.

Typical applications are: Interstage coupling, phase detection and pulse transformation.

GUARANTEED MINIMUM PERFORMANCE DATA SPECIFICATIONS FOR MODEL

HF-110 Type: 50 ohm unbalanced

50 ohm balanced - 1 dB Bandwidth, MHz Midband insertion loss dB .1-500 .5 Amplitude unbalance dB - 1 dB point) dB 1.0 Phase unbalance (-1 dB point)° 5 (deviation from 180°)°

VSWR (-1 dB point) 2.0:1

SPECIFICATIONS FOR MODEL HF-122

Type: 50 ohm unbalanced 200 ohm balanced

1-700 1 dB Bandwidth, MHz Midband insertion loss dB 1.2 Amplitude unbalance dB 1 dB point) dB 1.5 Phase unbalance - 1 dB point)° 7 (deviation from 180°)° VSWR (-1 dB point) 1.5:1

NOTE:

 1 dB bandwidth is measured relative to midband loss.

ABSOLUTE MAXIMUM RATINGS:

Input power 2 w. limited by (IDC2 + IRF2)Z = Pmax. Temperature range - 54°C to + 100°C

ENVIRONMENTAL CONDITIONS

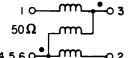
GUARANTEED ENVIRONMENTAL PERFORMANCE:

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

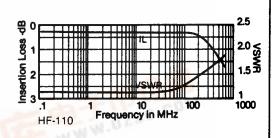
MIL-STD-202E.		Test
Exposure	Method	Condition
Thermal Shock	107D	В
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	С
Random Vibration (15 minutes per axis)	214	IIF
Solderability	208Ç	
Terminal Strength	211A	С
Resistance to		
Soldering Heat	210A	В

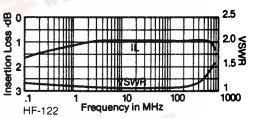
Sealed units, meet the requirements of Method 106D of MIL-STD-202E when exposed to humidity.

FUNCTIONAL SCHEMATIC



TYPICAL PERFORMANCE





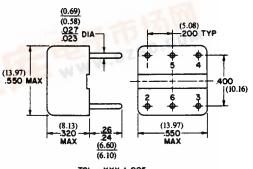
PACKAGE MATERIAL:

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

FINISH:

Header: Glossy red Dially! Phthalate

Leads: Silver plated per QQ-S-365A, Type I, Grade B



TOL. .XXX ±.005 (0.13)

Specifications subject to change without notice.