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 .1-500
Midband insertion loss dB .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 dB Bandwidth, MHz 	1-700
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

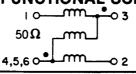
GUARANTEED ENVIRONMENTAL PERFORMANCE:

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

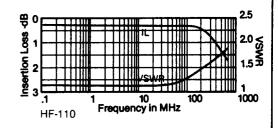
MIL-STD-202E.		Test
Exposure	Method	Condition
Thermal Shock	107D	В
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	С
Random Vibration (15 minutes per axis)	214	IIF
Solderability	208C	
Terminal Strength Resistance to	211A	С
Soldering Heat	210A	В

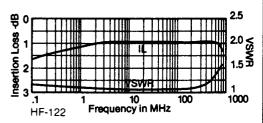
Sealed units, meet the requirements of Method 106D of MIL-STD-202E when exposed to humidity.

FUNCTIONAL SCHEMATIC



TYPICAL PERFORMANCE



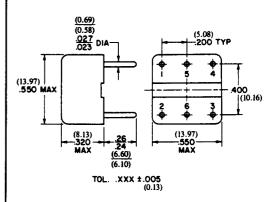


PACKAGE MATERIAL:

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

FINISH:

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



Specifications subject to change without notice.

8.10.04 Rev. A