



HF-128/HF-132
Wideband
RF/Pulse
Transformers
.5-200 MHz/.1-100 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-128

Type: 50 ohm unbalanced
200 ohm balanced
DC isolated C.T.

– 1 dB Bandwidth, MHz .5-200
Midband insertion loss dB 1.0
Amplitude unbalance dB
(– 1 dB point) dB 1.0
Phase unbalance (– 1 dB point)° 8
VSWR (– 1 dB point) 2.5:1

SPECIFICATIONS FOR MODEL HF-132

Type: 50 ohm unbalanced
600 ohm balanced
DC isolated C.T.

– 1 dB Bandwidth, MHz .1-100
Midband insertion loss dB 1.5
Amplitude unbalance dB
(– 1 dB point) dB 1.5
Phase unbalance (– 1 dB point)° 11
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
($I_{PC2} + I_{RF2}$)Z $\cong$ Pmax.
Temperature range – 54°C to + 100°C

ENVIRONMENTAL CONDITIONS

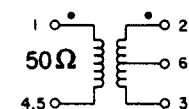
GUARANTEED ENVIRONMENTAL PERFORMANCE:

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.

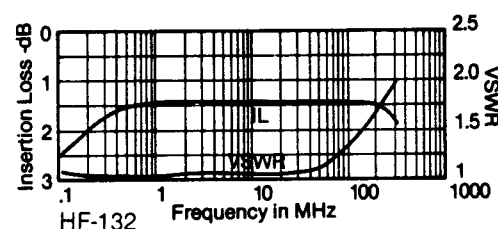
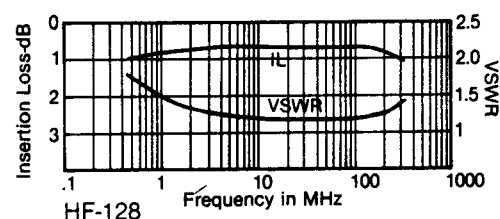
Exposure	Method	Test Condition
Thermal Shock	107D	B
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	C
Random Vibration (15 minutes per axis)	214	IIF
Solderability	208C	
Terminal Strength	211A	C
Resistance to Soldering Heat	210A	B

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

FUNCTIONAL SCHEMATIC



TYPICAL PERFORMANCE



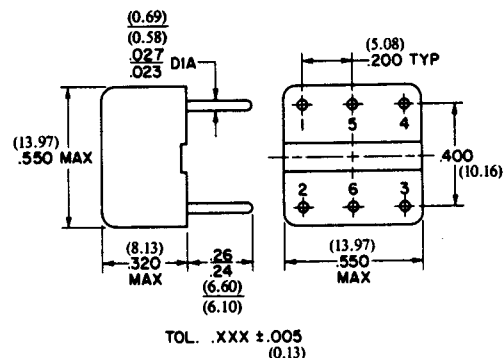
PACKAGE

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