



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  
 $(I_{DC2} + I_{RF2})Z \cong P_{max}$ .  
 Temperature range  $-54^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$

## ENVIRONMENTAL CONDITIONS

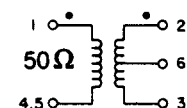
**GUARANTEED ENVIRONMENTAL  
PERFORMANCE:**

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

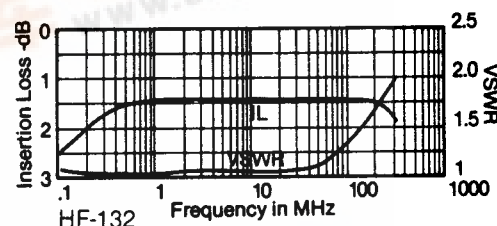
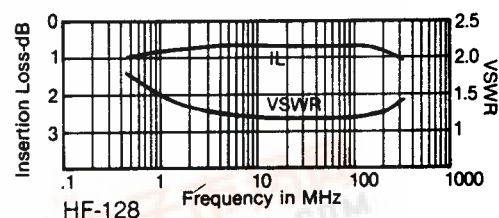
MIL-STD-202E.		Test
Exposure	Method	Condition
Thermal Shock	107D	B
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	C
Random Vibration (15 minutes per axis)	214	IIF
Solderability	208C	
Terminal Strength	211A	C
Resistance to Soldering Heat	210A	B

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

