



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  $(I_{DC}^2 + I_{RF}^2)Z \cong P_{max}$ .  
Temperature range - 54°C to + 100°C

### ENVIRONMENTAL CONDITIONS

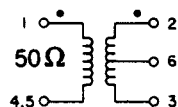
#### GUARANTEED ENVIRONMENTAL PERFORMANCE:

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.

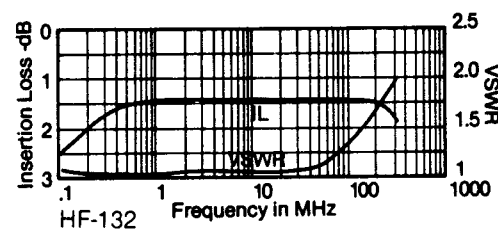
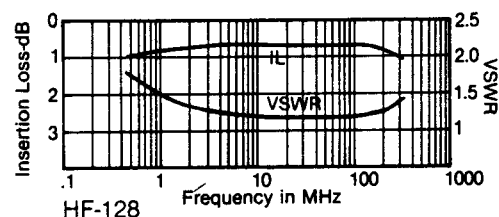
Exposure	Method	Test Condition
Thermal Shock	107D	B
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	C
Random Vibration (15 minutes per axis)	214	IIF
Solderability	208C	
Terminal Strength	211A	C
Resistance to Soldering Heat	210A	B

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

### FUNCTIONAL SCHEMATIC



### TYPICAL PERFORMANCE



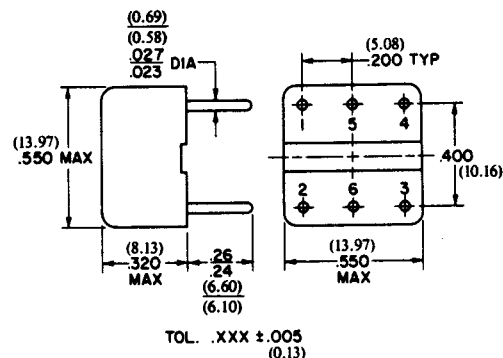
### PACKAGE

#### 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.