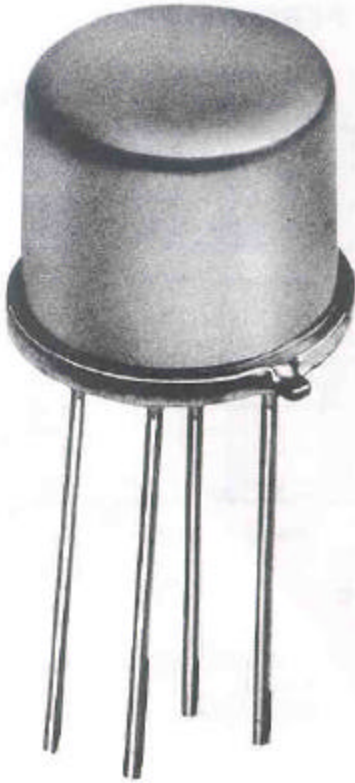


TO-230  
Wideband  
RF/Pulse  
Transformers  
.5-100 MHz

# VARI-L



## DESCRIPTION

The TO series is a line of six TO-5 packaged transformers offering the most common configurations.

These transformers are high reliability devices designed to meet MIL-T-55631. Typical applications are: Interstage coupling, phase detection and pulse transformation.

## LIMITED WARRANTY

Vari-L Company, Inc. warrants its products against defects in parts and workmanship for a period of one year.

## GUARANTEED MINIMUM PERFORMANCE DATA SPECIFICATIONS FOR MODEL TO-230

Type: 50 ohm unbalanced  
450 ohm unbalanced

-1 dB Bandwidth, MHz	5-100
Midband insertion loss dB	.75
VSWR	2.5:1

### NOTE:

-1 dB bandwidth is measured relative to midband loss.

### ABSOLUTE MAXIMUM RATINGS:

Input power 1 w. limited by  $(I_{DC}^2 + I_{RF}^2)Z \cong P_{max}$   
Temperature range -54°C to +100°C

### ENVIRONMENTAL CONDITIONS

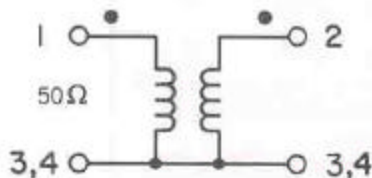
### GUARANTEED ENVIRONMENTAL PERFORMANCE:

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.

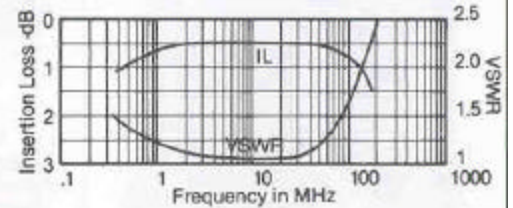
Exposure	Method	Test Condition
Thermal Shock	107D	B
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	C
Random Vibration (15 minutes per axis)	214	IIF
Solderability	208C	
Terminal Strength	211A	C
Resistance to Soldering Heat	210A	B

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

### FUNCTIONAL SCHEMATIC



## TYPICAL PERFORMANCE



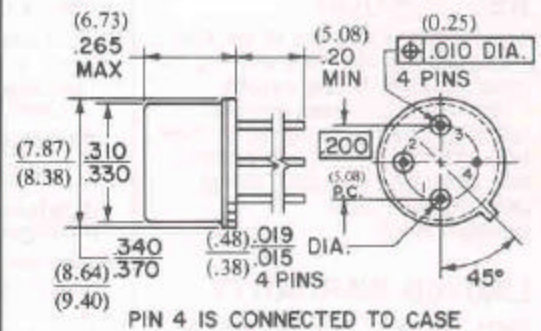
## PACKAGE

### MATERIAL:

Header & Leads: F15 Kovar per ASTM Standard F-15-68  
Cover: Nickel 200 per ASTM B162-58T

### FINISH:

Header & Leads: Gold per MIL-G-45204, Type I, Grade A, Class 1, over nickel per QQ-N-290, Class 1, Form SB  
Cover: Nickel 200 per ASTM B162-58T



TRANSFORMERS