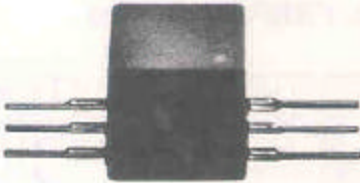




DP-312  
Wideband  
RF/Pulse  
Transformer  
.25-400 MHz



### DESCRIPTION

The DP series is composed of three transformers offering the most common configurations in the popular six pin miniature DIP package.

These devices are high reliability devices designed to meet MIL-T-55631. Typical applications are: Interstage coupling, phase detection, DC decoupling, voltage/current step up/step down and pulse transformation. 1 watt total input power to +100°C.

### 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 DP-312

Type: 50 ohm unbalanced  
50 ohm unbalanced  
ph rev. DC isolated

- 1 dB Bandwidth, MHz	.25-400
Midband insertion loss dB	0.5
VSWR	1.75:1

#### NOTE:

- 1 dB bandwidth is measured relative to midband loss.

#### ABSOLUTE MAXIMUM RATINGS:

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

### ENVIRONMENTAL CONDITIONS

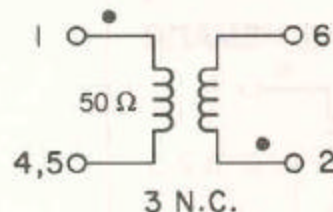
#### GUARANTEED ENVIRONMENTAL PERFORMANCE:

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.

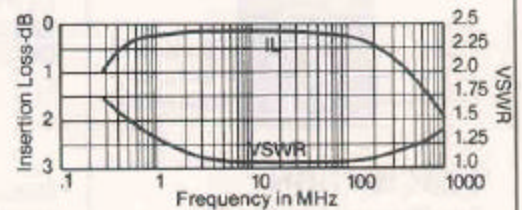
Exposure	Method	Test Condition
Thermal Shock	107D	B
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	C
Random Vibration (15 minutes per axis)	214	IIF
Solderability	208C	
Terminal Strength	211A	C
Resistance to Soldering Heat	210A	B

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

### FUNCTIONAL SCHEMATIC



### TYPICAL PERFORMANCE



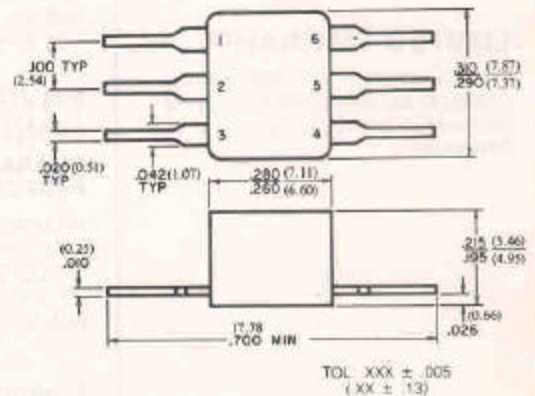
### PACKAGE

#### MATERIAL:

Header: Glass filled epoxy  
Leads: Kovar per MIL-STD-1276, Type K

#### FINISH:

Header: Black epoxy  
Leads: Tin plated



TRANSFORMERS