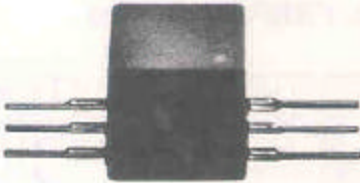




DP-312
Wideband
RF/Pulse
Transformer
.25-400 MHz



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. $(I_{DC}^2 + I_{RF}^2)Z \approx P_{max}$.

ENVIRONMENTAL CONDITIONS

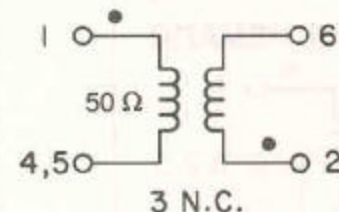
GUARANTEED ENVIRONMENTAL PERFORMANCE:

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.

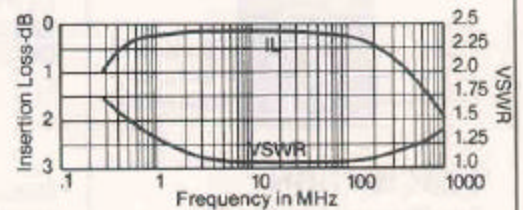
Exposure	Method	Test Condition
Thermal Shock	107D	B
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	C
Random Vibration (15 minutes per axis)	214	IIF
Solderability	208C	
Terminal Strength	211A	C
Resistance to Soldering Heat	210A	B

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

FUNCTIONAL SCHEMATIC



TYPICAL PERFORMANCE



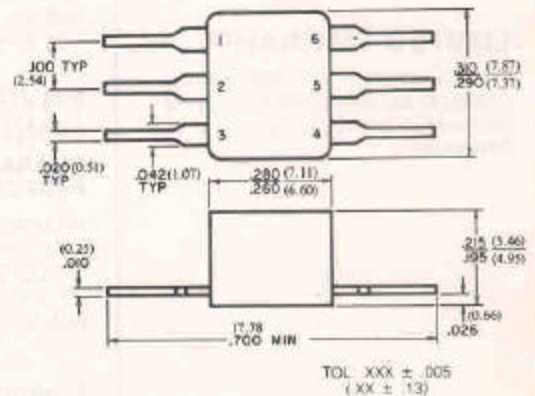
PACKAGE

MATERIAL:

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

FINISH:

Header: Black epoxy
Leads: Tin plated



TRANSFORMERS