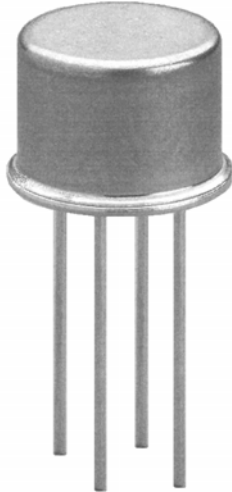


TO-212  
Wideband  
RF/Pulse  
Transformers  
.5-650 MHz



**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.

**GUARANTEED MINIMUM PERFORMANCE DATA**  
**SPECIFICATIONS FOR MODEL TO-212**

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

- 1 dB Bandwidth, MHz .5-650  
Midband insertion loss dB .5  
VSWR 1.75:1

**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**

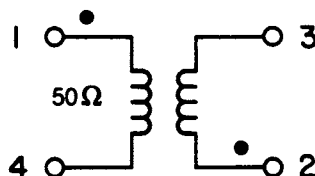
**GUARANTEED ENVIRONMENTAL PERFORMANCE:**

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.

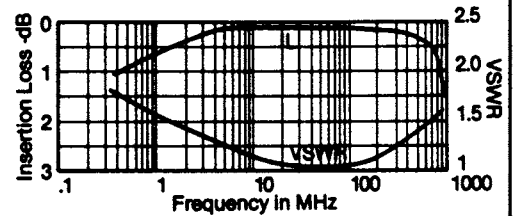
Exposure	Method	Test Condition
Thermal Shock	107D	B
Altitude	105C	G
H.F. Vibration	204C	D
Mechanical Shock	213B	C
Random Vibration	214	IIF
(15 minutes per axis)		
Solderability	208C	
Terminal Strength	211A	C
Resistance to Soldering Heat	210A	B

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

**FUNCTIONAL SCHEMATIC**



**TYPICAL PERFORMANCE**



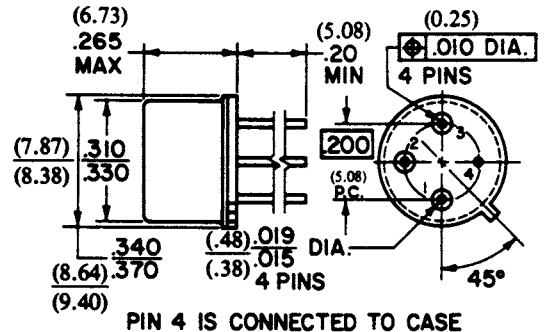
**PACKAGE**

**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



Specifications subject to change without notice.