This specification describes a high performance line matching transformer with the following features.

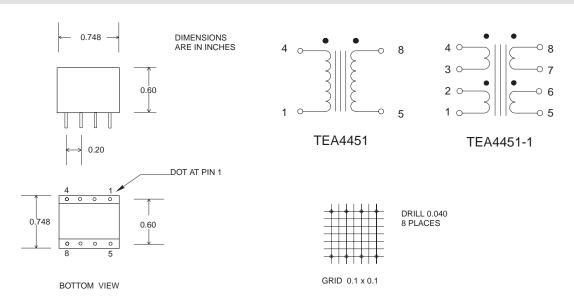
- High dielectric strength.
- Creepage distances and insulation conforming to BS 6301.
- Low insertion loss.
- Low profile.
- Conforms to FCC part 68 and Canadian CS03.

Applications:

Line matching in 600 and 900 ohm circuits where low cross talk, accurate impedance matching and high dielectric withstanding voltages are required.



MECHANICAL



ELECTRICAL TEA4451 TEA4451-1

TEA4451 and TEA4451-1 transformers have the following performances when equally terminated with 600 Ohms at the input and output terminals.

| Frequency response | 0.25 dB max. | 0.25 dB max | 200 to 3500 Hz. |
|----------------------|--------------------|--------------------|-------------------|
| Insertion loss | 0.50 dB max | 0.50 dB max | @ 1000 Hz. |
| Return loss | 17.0 dB min | 17.0 dB min | 200 to 3500 Hz. |
| Resistance | 25.0 Ω nom. | 12.5 Ω nom. | each winding. |
| Dielectric strength | 2500 Vrms | 2500 Vrms | Pri to Sec. and |
| | | | windings to core. |
| Longitudinal balance | 65 dB min | 65 dB min | 200 to 3500 Hz |
| Cross talk | 110 dB min. | 110 dB min | @ 0.1" distance |