

T3/DS3/E3/STS-1 Modules

Dual Transformer Isolation, SMD Package



Product Features:

- Standard series of SMD dual transformer Isolation Modules to meet the return loss requirements of G.703 for T3, DS3, E3 and STS-1 applications
- Custom Turns Ratios Available
- 1500Vrms Hi-Pot
- UL/EN60950 Recognized
- Patented Open Frame Construction

| Part Number | Schematic | PRI Pins | Turns Ratio $\pm 2\%$ PRI:SEC | PRI OCL (μH min) | LL (μH max) | Temp Range | RoHS |
|---------------|-----------|-----------|----------------------------------|---------------------------------|----------------------------|---------------|-----------|
| TG01-0406N1LF | A | 1-2 & 7-8 | 1:1 & 1:1 | 40 | 0.10 | -40 to +85°C | Pb-Free |
| TG01-0406N1RL | A | 1-2 & 7-8 | 1:1 & 1:1 | 40 | 0.10 | -40 to +85°C | RoHS (7a) |
| TG01-0456N1LF | A | 1-2 & 7-8 | 1:1 & 1:1 | 45 | 0.12 | -40 to +85°C | Pb-Free |
| TG01-0456N1RL | A | 1-2 & 7-8 | 1:1 & 1:1 | 45 | 0.12 | -40 to +85°C | RoHS (7a) |
| TG20-S001N1LF | A | 1-2 & 7-8 | 1:1 & 1:1.5 | 40 | 0.15 | -40 to +85°C | Pb-Free |
| TG20-S001N1RL | A | 1-2 & 7-8 | 1:1 & 1:1.5 | 40 | 0.15 | -40 to +85°C | RoHS (7a) |
| TG57-0406N1LF | B | 1-2 & 6-8 | 1:1 & 1CT:1CT | 40 | 0.10 | 0 to 70°C | Pb-Free |
| TG57-0406N1RL | B | 1-2 & 6-8 | 1:1 & 1CT:1CT | 40 | 0.10 | 0 to 70°C | RoHS (7a) |
| TG57-0456N1LF | B | 1-2 & 6-8 | 1:1 & 1CT:1CT | 45 | 0.12 | -40 to +85°C | Pb-Free |
| TG57-0456N1RL | B | 1-2 & 6-8 | 1:1 & 1CT:1CT | 45 | 0.12 | -40 to +85°C | RoHS (7a) |
| TG74-0406N1LF | C | 1-2 & 7-8 | 1:1 & 1:2CT | 40 & 19 | 0.10 | 0 to 70°C | Pb-Free |
| TG74-0406N1RL | C | 1-2 & 7-8 | 1:1 & 1:2CT | 40 & 19 | 0.10 | 0 to 70°C | RoHS (7a) |
| TG74-0456N1LF | C | 1-2 & 7-8 | 1:1 & 1:2CT | 45 & 35 | 0.12 | -40 to +85°C | Pb-Free |
| TG74-0456N1RL | C | 1-2 & 7-8 | 1:1 & 1:2CT | 45 & 35 | 0.12 | -40 to +85°C | RoHS (7a) |

Notes:

1. Pb-Free parts are RoHS 6/6 compliant. RoHS (7a) parts contain lead per exemption 7a which is set to expire July 2016.
2. Parts with RL suffix are not recommended for new designs.
3. Please contact the factory or representative for individual datasheets or additional information.

Schematic A



Schematic B



Schematic C



T3/DS3/E3/STS-1 Isolation Modules

Package N1



Dimensions: inch [mm]
Co-Planarity: 0.004 [0.10]

US Patent Numbers

5,656,985 6,297,721 B1
6,297,720 B1 6,320,489 B1
6,344,785 B1 6,662,431 B1

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