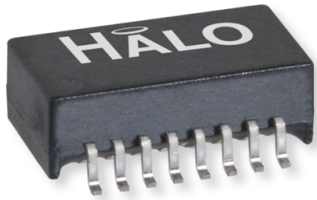


# T3/DS3/E3/STS-1 Modules

Dual Transformer Isolation, SMD Package



## Product Features:

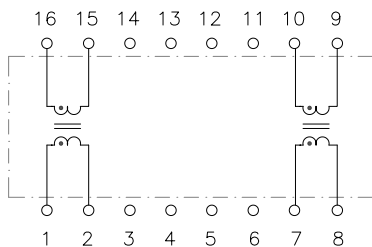
- Standard series of SMD dual transformer Isolation Modules to meet the return loss requirements of G.703 for T3, DS3, E3 and STS-1 applications
- Custom Turns Ratios Available
- 1500Vrms Hi-Pot
- UL/EN60950 Recognized
- Patented Open Frame Construction

Part Number	Schematic	PRI Pins	Turns Ratio $\pm 2\%$ PRI:SEC	PRI OCL ( $\mu\text{H}$ min)	LL ( $\mu\text{H}$ 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)

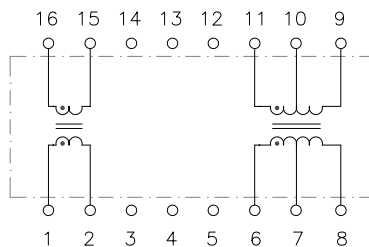
### Notes:

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.

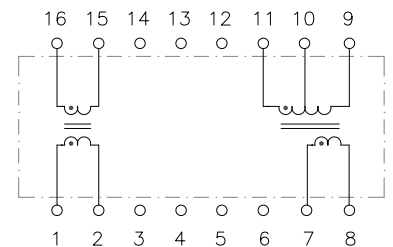
### Schematic A



### Schematic B

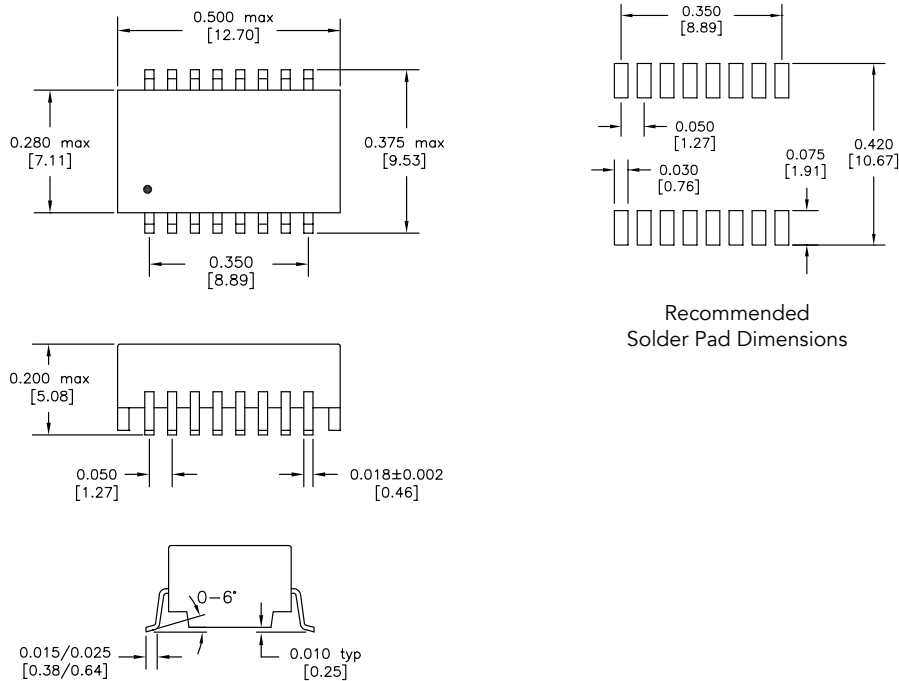


### Schematic C



# T3/DS3/E3/STS-1 Isolation Modules

## Package N1



Recommended  
Solder Pad Dimensions

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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