

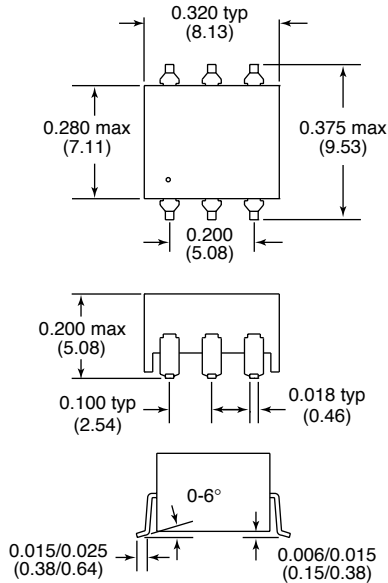
# HALO **SMD E4/STM-1/STS-3/OC-3** Electronics, Inc. Modules

HALO Electronics has developed this standard series of single and dual core devices to meet the requirements for E4, STM-1, STS-3 and OC-3 applications. Designed specifically to interface with the TDK 78P2253 transceiver. UL60950 and EN60950 recognized.



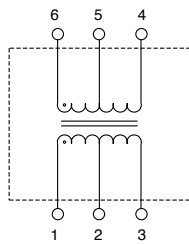
SMD E4/STM-1/STS-3/OC-3 Modules

### Single NS Package

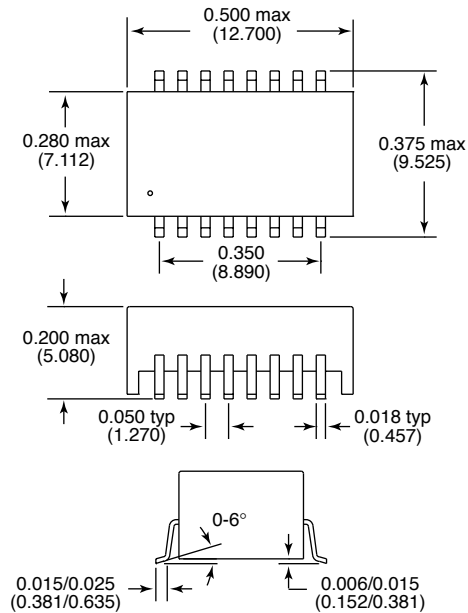


DIMENSIONS: Inch(mm)  
CO-PLANARITY: 0.004(0.102)

### Schematic A

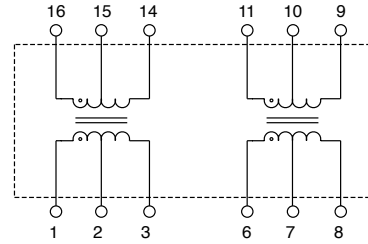


### Dual N1 Package



DIMENSIONS: Inch(mm)  
CO-PLANARITY: 0.004(0.102)

### Schematic B



Electrical Specifications @ 25°C  
Isolation Voltage: 1,500 Vrms  
Bandwidth: 0.1 - 400MHz  
OCL: 36µH min.  
Operating Temp: -40 to +85°C

Patented Construction  
US Pat Nbrs: 5,656,985 6,297,721 B1  
6,297,720 B1 6,320,489 B1  
6,344,785 B1 6,662,431 B1

Part Number	Turns Ratio +/-3%	Return Loss (typ)		DCR Ω Max.	Baud Rate Mhz	Primary Pins	Circuit Schem.
	PRI:SEC	1-320MHz	5-100MHz				
TG04-TDK2NSRL	1CT:1CT	-15dB	-20dB	0.30	0.1 - 400	1-3	A
TG04-TDK1N1RL	1CT:1CT & 1CT:1CT	-15dB	-20dB	0.30	0.1 - 400	1-3, 6-8	B