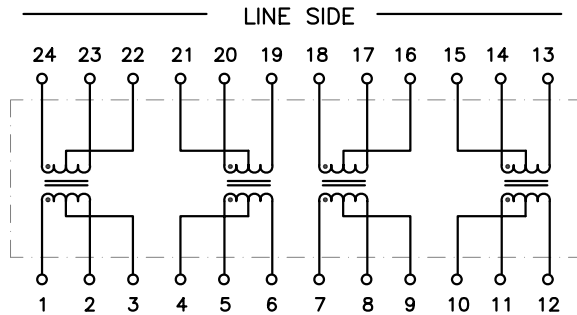


DIMENSIONS: Inch [mm]  
CO-PLANARITY: 0.004 [0.10]  
TOLERANCES: ±0.005 IF NOT SPECIFIED



## PART NO.: TG111-HRPE41NYRL

ONE-PORT GIGABIT OR DUAL-PORT FAST ETHERNET  
MAGNETICS COMPLIANT WITH IEEE802.3 REQUIREMENTS  
1A CURRENT CARRYING CAPACITY PER PAIR ON LINE-SIDE  
(500mA PER WIRE) FOR HIGH POWER PoE APPLICATIONS

RoHS COMPLIANT

COMPATIBLE TO LEAD-FREE SOLDERING PROCESS  
CONDITION PER IPC/JEDEC J-STD-020C

UL/EN60950 AND DEMKO RECOGNIZED

EXTENDED OPERATING TEMPERATURE -40/+55°C

### ELECTRICAL SPECIFICATIONS @ 25° C

URNS RATIO	1CT:1CT±2%
OCL (100KHz,0.1Vrms,8mA)	350µH min
UNBALANCED DC CURRENT	13mA max*
DCR	
P14-13,P18-17,P20-19,P24-23	0.6Ω max
INSERTION LOSS	
1-100MHz	-1.1dB max
RETURN LOSS	
1-40MHz	-18dB min
60MHz	-14dB min
80MHz	-12dB min
100MHz	-10dB min
CROSSTALK 1-100MHz	-40dB typ
ISOLATION	1,500Vrms

\* MAXIMUM DC CURRENT ALLOWED TO MAINTAIN OCL OF 350µH(TYP)  
OVER OPERATING TEMPERATURE



**HALO/PBL**

CALIFORNIA, USA  
KOWLOON, HONG KONG  
SINGAPORE

TITLE	ISOLATION MODULE		SIGNATURES	DATE	REV.	DESC.	DATE
FOR	HIGH POWER PoE APPL.		DRAWN PETER LU	10/8/07	A	FIRST ISSUE	10/8/07
PART NO.	TG111-HRPE41NYRL		CHECKED LEI KEONG	10/16/09	B	UPDATE SPEC.	11/8/07
SCALE	NONE	PAGE 1 OF 1	APPROVED PETER LU	10/16/09	C	REVISE OP. TEMP.	1/28/08
			FILE HRPE41NYRL.DWG		D	PROD. RELEASE	10/16/09