



PART NO. : TGR110-Q350NCRL

12PIN SMT ISOLATION MODULE

DESIGNED FOR FAST ETHERNET APPLICATIONS

RoHS COMPLIANT

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

COMPLIANT TO UL60950 REINFORCED INSULATION
REQUIREMENTS FOR WORKING VOLTAGE UP TO 300V

DUAL-LAYER INSULATION FROM WINDINGS TO CORE
EXTENDED OPERATING TEMPERATURE $-40/+85^{\circ}\text{C}$

ELECTRICAL SPECIFICATIONS @ 25°C

URNS RATIO

P1-3:P12-10

1CT:1CT $\pm 3\%$

P4-6:P9-7

1CT:1CT $\pm 3\%$

ACL ($100\text{KHz}, 0.1\text{Vrms}, 8\text{mA}$)

P1-3,P4-6

$350\mu\text{H}$ min

DCR P1-3,P4-6

0.9Ω max

LL P1-3,P4-6

$0.8\mu\text{H}$ max

C_w/w

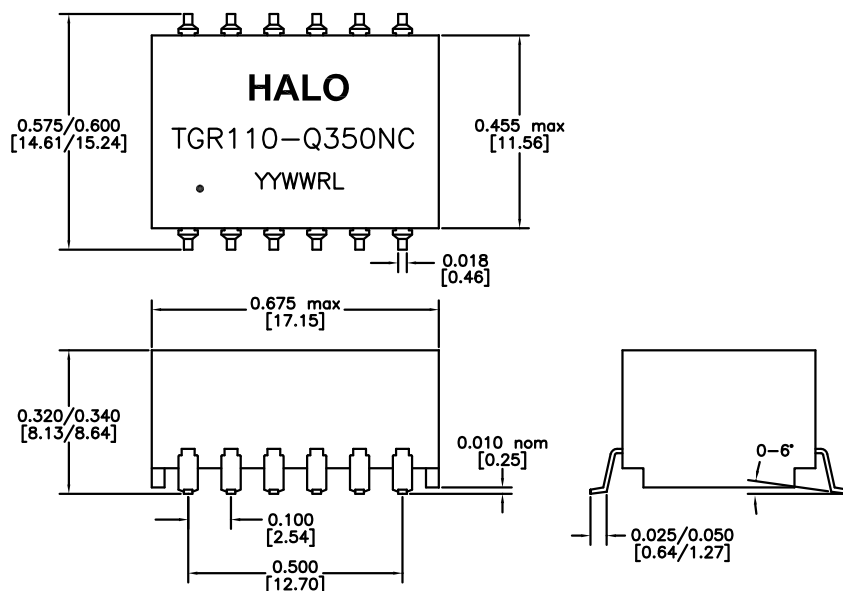
15pF max

CROSSTALK 1-100MHz

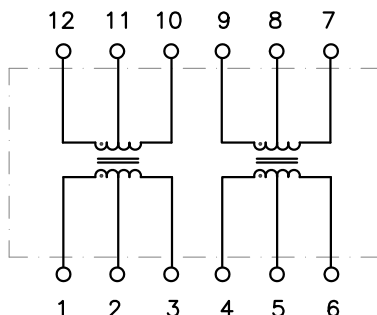
-40dB typ

ISOLATION

$4,500\text{Vrms}/60$ sec



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



HALO/PBL

CALIFORNIA, USA
KOWLOON, HONG KONG
SINGAPORE

TITLE TRANSFORMER MODULE

FOR FAST ETHERNET

PART NO. TGR110-Q350NCRL

SCALE NONE

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SIGNATURES

DRAWN LI ZHI ZHONG

DATE 6/14/06

REV. A

DESC. FIRST ISSUE

DATE 6/14/06

CHECKED LEI KEONG

DATE 12/15/11

REV. B

DESC. REV. CROSSTALK

DATE 7/18/06

APPROVED PETER LU

DATE 12/15/11

REV. C

DESC. PROD. RELEASE

DATE 8/12/06

FILE Q350NCRL.DWG

REV. D

DESC. UPDATE OP. TEMP

DATE 12/15/11



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