



PART NO. : TG110-AEX50N5LF

16PIN SMT ISOLATION MODULE FOR
10/100BASE-TX ETHERNET INTERFACE

DESIGNED TO MEET AEC-Q200 REQUIREMENTS
FOR AUTOMOTIVE APPLICATIONS

LEAD-FREE/RoHS COMPLIANT

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

UL/EN60950 AND DEMKO RECOGNIZED

EXTENDED OPERATING TEMPERATURE $-40/+125^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS (25°C)

URNS RATIO

P16-14:P1-3

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

P11-9:P6-8

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

OCL (100KHz,0.1Vrms,8mA)

P16-14,P11-9

350 μH min¹

DCR P16-14,P11-9

1.0 Ω max

LL P16-14,P11-9

0.4 μH max

Cw/w

35pF max

ISOLATION

1500Vrms

¹ MIN OCL OVER OPERATING TEMPERATURES

² FOR DESIGN REFERENCE

FREQUENCY RESPONSE (25°C)²

INSERTION LOSS

1-100MHz

-1.1dB max

RETURN LOSS

0.5-30MHz

-18dB min

40MHz

-15.5dB min

50MHz

-13.6dB min

60-80MHz

-12dB min

COMMON MODE REJECTION

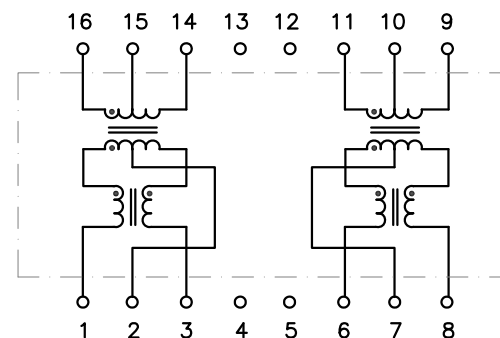
0.1-100MHz

-40dB typ

CROSSTALK

0.1-100MHz

-40dB typ



HALO/PBL

CALIFORNIA, USA
KOWLOON, HONG KONG
SINGAPORE

TITLE TRANSFORMER MODULE

FOR FAST ETHERNET

PART NO. TG110-AEX50N5LF

SCALE NONE

PAGE 1 OF 2

SIGNATURES

DRAWN LI ZHI ZHONG

CHECKED LEI KEONG

APPROVED PETER LU

FILE AEX50N5LF.DWG

DATE

11/20/08

4/30/15

4/30/15

REV.

A

B

C

DESC.

FIRST ISSUE

REV. OCL LIMIT

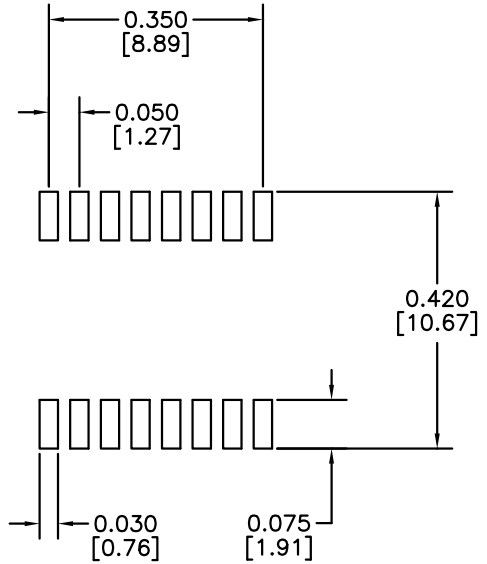
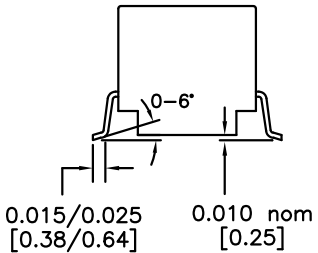
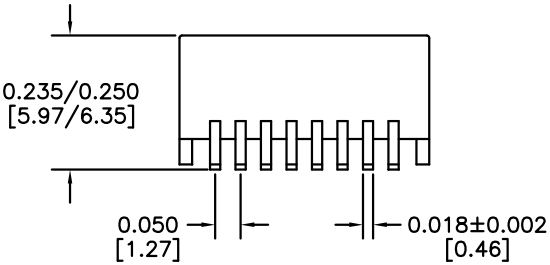
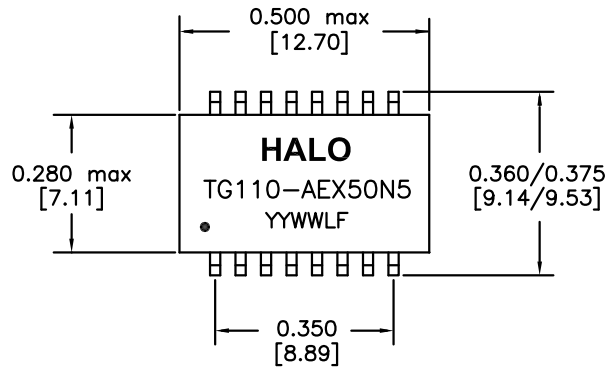
PROD. RELEASE

DATE

11/20/08

4/10/09

4/30/15



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

RECOMMENDED SOLDER PAD DIMENSIONS

HALO/PBL	TITLE TRANSFORMER MODULE		SIGNATURES		DATE	REV.	DESC.	DATE
	FOR FAST ETHERNET		DRAWN	LI ZHI ZHONG	11/20/08	A	FIRST ISSUE	11/20/08
	PART NO. TG110-AEX50N5LF		CHECKED	LEI KEONG	4/30/15	B	REV. OCL LIMIT	4/10/09
			APPROVED	PETER LU	4/30/15	C	PROD. RELEASE	4/30/15
CALIFORNIA, USA KOWLOON, HONG KONG SINGAPORE	SCALE NONE	PAGE 2 OF 2	FILE AEX50N5LF.DWG					

AMEYA360

Components Supply Platform

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