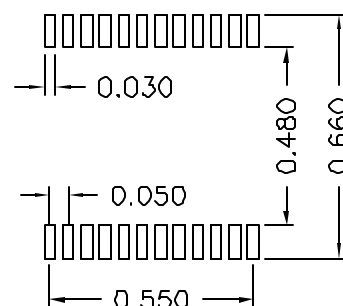
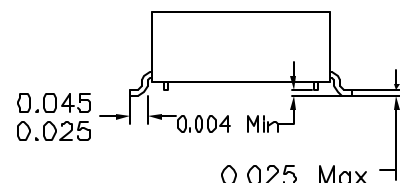
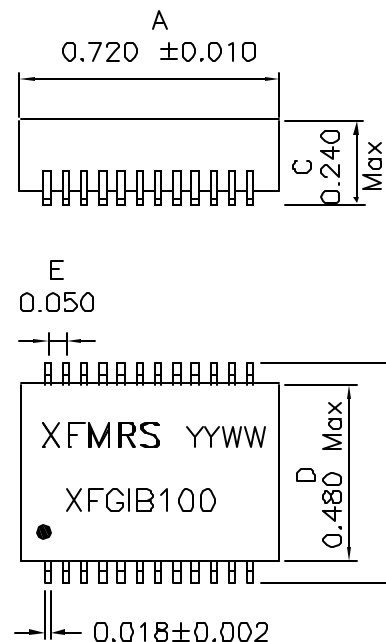
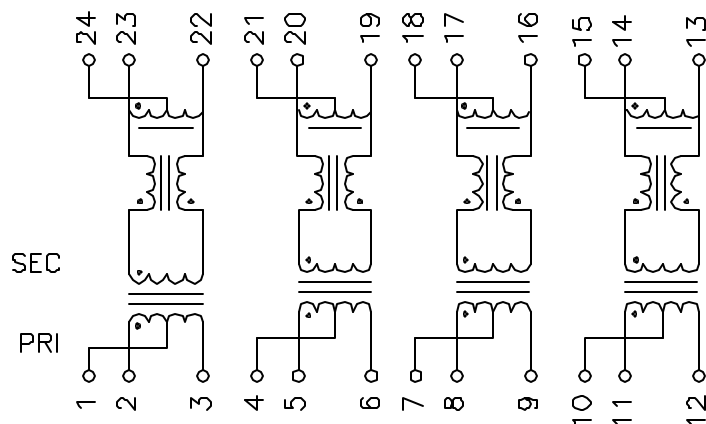


## 1. Mechanical Dimensions:



SUGGESTED PAD LAYOUT

## 2. Schematic:



## 3. Electrical Specifications: @25°C

ISOLATION: 1500 Vrms

URNS RATIO: (PRI/SEC) 1CT:1CT  $\pm 2\%$

OCL: 350uH MIN @100KHz 100mV 8mADC

Rise Time: 1.75ns Max.

INSERTION LOSS:  $-1.0$ dB MAX @1MHz–100MHz

RETURN LOSS:  $-18$ dB Min @1–30MHz

$-15$ dB Min @40MHz  $-13.1$ dB Min @50MHz

$-12$ dB Min @60–80MHz  $-10$ dB Min @100MHz

Differential to Common Mode Rejection:

$-43$ dB Min @30MHz  $-37$ dB Min @80MHz

$-33$ dB Min @100MHz

CMRR:  $-30$ dB Min @1–100MHz

Crosstalk:  $-45$ dB Min @30MHz

$-40$ dB Min @60MHz  $-35$ dB Min @100MHz

### Notes:

1. Solderability: Leads shall meet MIL-STD-202, Method 208D for solderability.
2. Flammability: UL94V-0
3. ASTM oxygen index:  $> 28\%$
4. Insulation System: Class F 155°C. UL file E151556
5. Operating Temperature Range: All listed parameters are to be within tolerance from  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
6. Storage Temperature Range:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
7. Aqueous wash compatible
8. SMD Lead Coplanarity:  $\pm 0.004^{\circ}$  (0.102mm)
9. Moisture Sensitivity: Level 3
10. Electrical and mechanical specifications 100% tested
11. RoHS Compliant Component

XFMRS Inc	Title: 1000BASE-T Modules		
	P/N: XFGIB100		REV. A
	UNLESS OTHERWISE SPECIFIED TOLERANCES:	DWN.	Juan Mao
	.xxx $\pm 0.010$	CHK.	YK Liao
	Dimensions in INCH	APP.	Joe Huff
SCALE 2:1 SHT 1 OF 1			Sep-12-04

PROPRIETARY

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DOC REV: A/9