

The diagram illustrates the internal circuitry of a 10GbE RJ45 connector. It features two transformer pairs, TX and RX, both with a 1CT:1CT turns ratio. The TX transformer is connected to pins 1, 2, 3, and 4, while the RX transformer is connected to pins 5, 6, 7, and 8. Four resistors, R1, R2, R3, and R4, are connected in parallel to the secondary windings of the transformers. A 1000pF 2KV capacitor is connected to the common ground of the resistors. The circuit is powered by a 10V supply (V10) and a 1000pF 2KV capacitor. The XFATM9JM-CTYGY1-4M component is connected to the primary windings of the transformers. The RJ45 connector is shown with pins 1 through 8 and a shield (Shld). The circuit is divided into two sections by a dashed line.

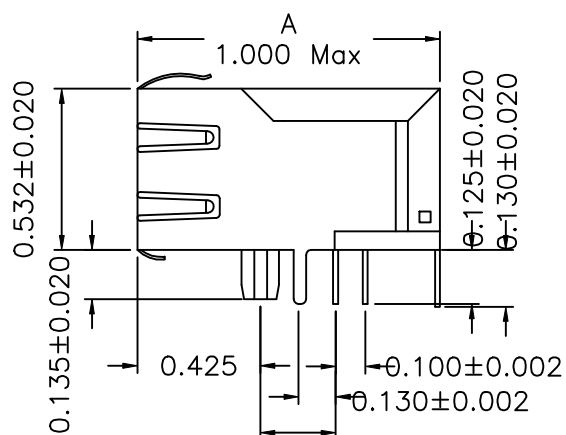
Isolation Voltage: 1500 Vrms (Input to Output)
Isolation Voltage: 500 Vrms (P1+2+3 to P4+5+6)
Turns Ratio: TX 1CT:1CT $\pm 3\%$ RX 1CT:1CT $\pm 3\%$
CABLE SIDE OCL: 350uH Minimum @100KHz 100mV 8mADC
Cw/w: 27pF Typical @100KHz 100mV
Insertion Loss (300KHz–100MHz): -1.0dB Minimum
Return Loss: @30MHz -18dB Minimum
 @80MHz -12dB Minimum

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 0°C to +70°C
6. Storage Temperature Range: -55°C to +125°C
7. Aqueous wash compatible

'x' = Left LED Color Y=Yellow
'u' = Right LED Color G=Green
 A=Amber
 R=Red
 YG=Yellow/Green Bicolor

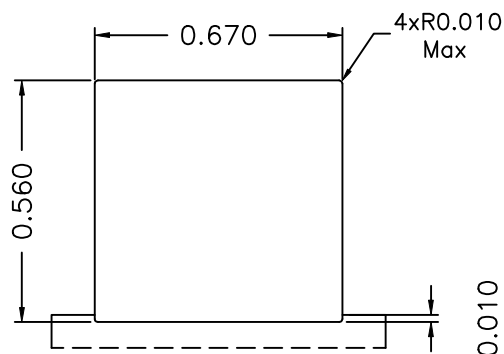
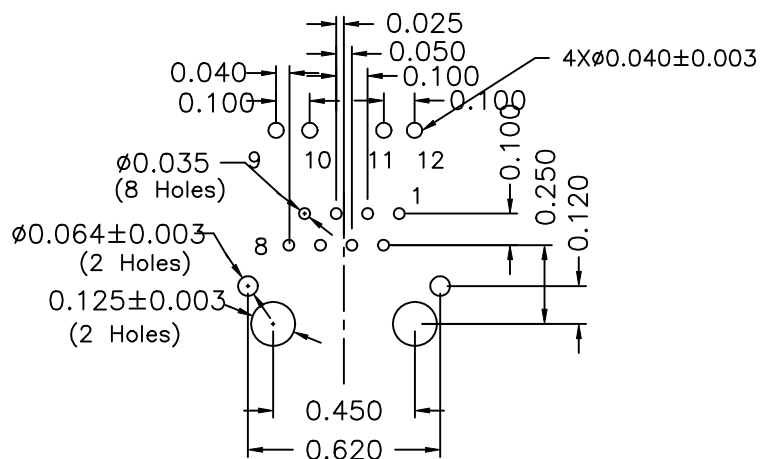
XFMRS Inc.		Title: SINGLE PORT COMBO TAB UP	
UNLESS OTHERWISE SPECIFIED TOLERANCES: .xxx ±0.010 Dimensions in Inch	P/N: XFATM9JM-CTYGY1-4M		REV. A
	DWN.	廖玉坤	Feb-6-03
	CHK.	李清儿	Feb-6-03
SHEET 1 OF 2	APP.	BW	Feb-6-03

Diagram showing the front view of the LED module. The width is labeled $B = 0.640$. The height is labeled 0.150 . The left and right LEDs are indicated by arrows. The bottom edge shows a series of vertical lines representing the LED array.



XFMR5
XFATM9JM—
CTYGY1—4M
YYWW

Mounting Pattern:



FACE VIEW
RECOMMENDED PANEL CUTOUT

Replace 'x' & 'u' in the part number with one of the five LED color letters:

'x' = Left LED Color
'u' = Right LED Color

Y=Yellow
G=Green
A=Amber
R=Red
YG=Yellow/Green Bicolor

DOC. REV A/1

XFMRS Inc.		Title: Mechanical Dimensions For TAB UB RJ45 COMBO	
UNLESS OTHERWISE SPECIFIED TOLERANCES: .xxx ±0.010 Dimensions in Inch	P/N: XFATM9JM-CTYGY1-4M		REV. A
	DWN.	李小锋	Feb-6-03
	CHK.	廖玉坤	Feb-6-03
SHEET 2 OF 2	APP.	BW	Feb-6-03