

The diagram illustrates a circuit for connecting a 1000pF 2KV capacitor to an RJ45 port. On the left, two transformers, each labeled '1CT:1CT', are shown. The top transformer has primary terminals 6, 5, and 4, and secondary terminals 3, 2, and 1. The bottom transformer has primary terminals 3, 2, and 1, and secondary terminals 6, 5, and 4. The secondary of the top transformer is connected to the TX (Transmit) port of a differential pair, and the secondary of the bottom transformer is connected to the RX (Receive) port. The TX and RX ports are connected to the RJ45 port pins 8, 7, 6, 5, 4, 3, 2, and 1. The RJ45 port is labeled 'Shld' (Shield). The TX and RX ports are connected to resistors R1, R2, R3, and R4, which are connected to a common ground. The ground is labeled '8' and '2KV'. The RJ45 port is connected to a ground symbol.

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 Max
Return Loss: @30MHz 18dB Minimum
 @80MHz 12dB Minimum
Common Mode to Differential Mode Rejection:
100KHz–60MHz –45dB Typ (Tx) / –40dB Typ (Rx)
60MHz–100MHz –40dB Typ (Tx) / –35dB Typ (Rx)
Q: 18 Min @100KHz 0.1V

1. Solderability: Leads shall meet MIL-STD-202G, Method 208H 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°C to +85°C
6. Storage Temperature Range: -55°C to +125°C
7. Aqueous wash compatible
8. Electrical and mechanical specifications 100% tested
9. RoHS Compliant Component

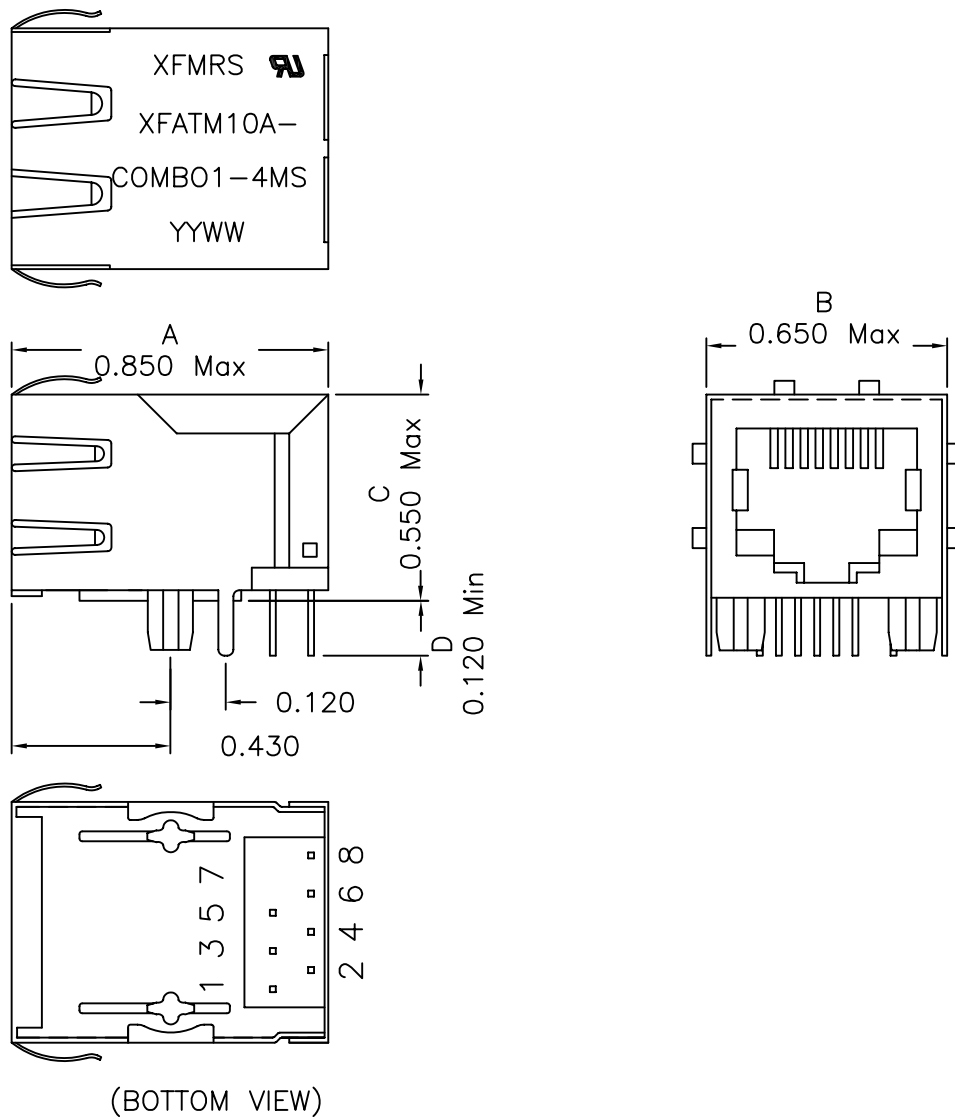
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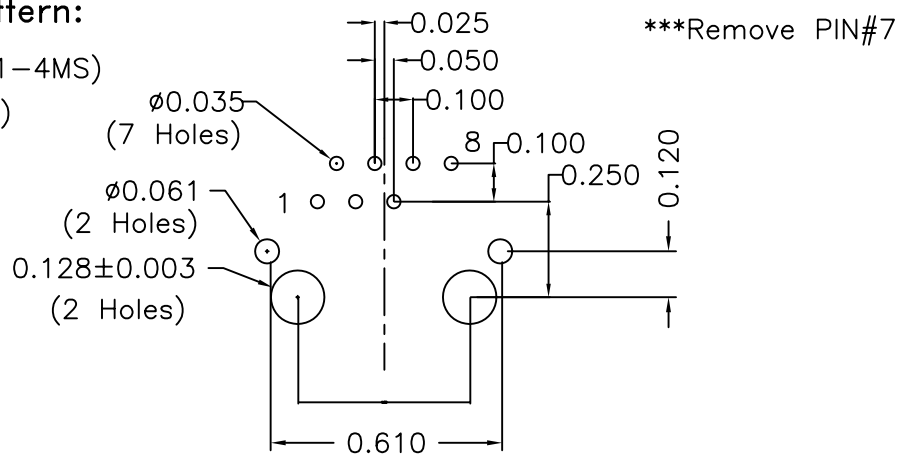
XFMRs Inc www.XFMRs.com	Title: SINGLE PORT COMBO		
	P/N: XFATM10A-COMBO1-4MS		REV. A
	DWN.	Mei Chen	Jan-04-10
	CHK.	YK Liao	Jan-04-10
UNLESS OTHERWISE SPECIFIED TOLERANCES: .xxx ±0.010 Dimensions in Inch	APP.	BW	Jan-04-10

Mechanical Dimensions:



Mounting Pattern:

(FOR COMBO1-4MS)
(COMP SIDE)



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UNLESS OTHERWISE SPECIFIED
TOLERANCES:
.xxx ±0.010
Dimensions in Inch

SHEET 2 OF 2

Title: Mechanical Dimensions
For COMBO1-4MS Series

P/N: XFATM10A-COMBO1-4MS

REV. A

DWN.

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