RJ45 Integrated Connector

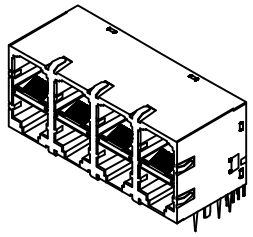
10/100 Base–TX, 2 x 4 Port, Through Hole, with & without LED's

Features:

1. Meets IEEE 802.3 and ANSI X3.263
2. Operating Temperature: 0℃ to +85℃
3. 1500Vrms Isolation
4. Enhanced Common Mode Attenuation for maximum EMI Suppression
5. Full Product Qualification Tests

3D Package View

24S3 and 24S3L



Product Selection

#	P/N	Row X Port	Pack age Style	Schematic Identification								
				Auto Xfmr	Input Pins -out		Output Pins -out		RTN	Turn Ratio TX Only	SCH #	LED
												Or / Gr
1	TIC-L020-24	2x4	24S3L	X	7,6,8	3,5,4	3,7,8,6	1,4,5,2	Shd	1ct:1ct	13L	2,1 / 9,10 — 10,9 / 1,2
2	TIC-L021-24	2x4	24S3	X	7,6,8	1,3,2	3,7,8,6	1,4,5,2	Shd	1ct:1ct	3	
3	TIC-L022-24	2x4	24S3	X	3,7,6	1,4,2	3,7,8,6	1,4,5,2	Shd	1ct:1ct	14	No / No
4	TIC-L023-24	2x4	24S3		1,4,2	3,7,6	1,4,5,2	3,7,8,6	Shd	1ct:1ct	15	No / No
5	TIC-L024-24	2x4	24S3		3,7,6	1,4,2	3,7,8,6	1,4,5,2	Shd	1.25ct:1ct	16	No / No

Package Identification

Package #	Package Style	Size LWH		Package Identification
		inches	mm	
24S3	2 x 4 Port	2.330 x 1.118 x 0.981	59.18 x 28.40 x 24.93	10 Spring taps, Double stack, 8 pins each, no LED Shield Mounting GND tap - Plastic Mounting tap
24S3L	2 x 4 Port	2.330 x 1.118 x 0.981	59.18 x 28.40 x 24.93	10 Spring taps, Double stack, 10 pins each, LED's Shield Mounting GND tap - Plastic Mounting tap

Electrical Specification @ 25 °C

Insertion Loss (dB Max)	Return Loss (dB Min)			CMRR (dB Min)	Crosstalk (dB Min)	OCL (m H Min)	Hipot (Vrms)	Impedance (Ω)
1-100 MHz 1	1-30 MHz -18	60 MHz -16	80 MHz -12	1-100 MHz -35	1-100 MHz -35	8mA Dc Bias 350	1 minute 1500	100

Package Information

Weight		Quantity	
weight /pcs (g)	weight / carton (kg)	quantity / tray (pcs)	quantity / carton (pcs)
46.8	5.2	20	80

Product Qualification Tests

Test #	Test Description
1	Product Performance : Complete Electrical Test,
	Mechanical Measurements and Visual Inspection
2	Low Level Contact Resistance
3	Dielectric Strength
4	Insulation Resistance
5	Vibration
6	Mechanical Shock
7	Durability (Repeated mating / unmating)
8	Solderability
9	Thermal Shock
10	Humidity Temperature Cycling

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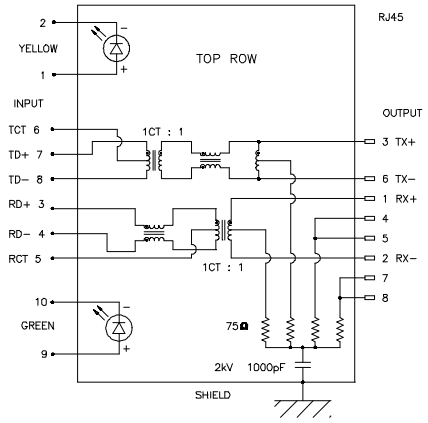
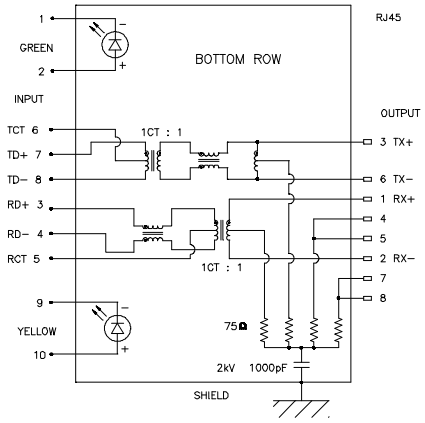
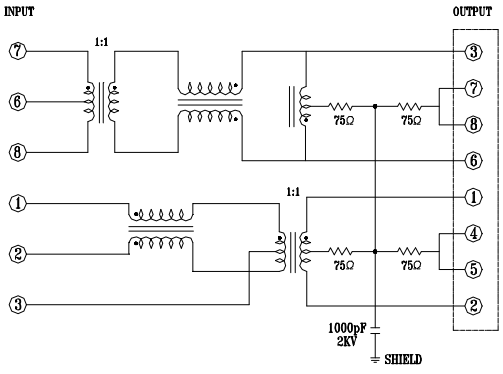
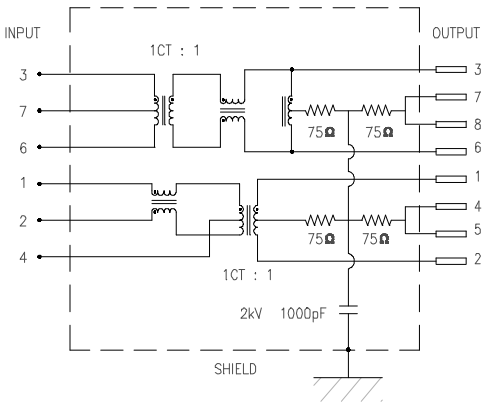
Mechanical Material Specification									
Contact Material	Contact						Housing & Insert	Shell	
	Contact Finish								
	Upper Contact			Lower Contact					
	Contact Area	Solder Tail Area	Underp-plating	Contact Area	Solder Tail Area	Under-plating		Front	Back
Phosphor Bronze	Gold	Tin/Lead (9:1)	Nickel	Gold	Tin/Lead (9:1)	Nickel	Thermo-plastic Nylon 6T, Black	Stainless SUS 304	Stainless SUS 304
0.35 mm thick	30 μ" Min.	100 μ" Min.	50 μ" Min.	100 μ" Min.	100 μ" Min.	50 μ" Min.	UL 94V-0	0.25 mm thick	0.20 mm thick

SCHEMATIC 13L





SCHEMATIC 3



SCHEMATIC 14