

PULSEJACK™

1xN GangjackL



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A TECHNITROL COMPANY

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Description:

10/100 Base-TX RJ45 1xN Tab-DOWN with or without LEDs integrated magnetics connector (ICM) designed to support applications such as: SOHO (ADSL modems), LAN-on-Motherboard (LOM), Hub and Switches.



Features and Benefits:

- RoHS-5 peak wave solder temperature rating 235°C
- RoHS-6 peak wave solder temperature rating 260°C
- RJ45 1xN, Tab-DOWN 8-pin with internal magnetics
- Suitable for CAT 5 and 6 Fast Ethernet cable or better UTP
- Internal magnetics: 100% electrically tested for HI-POT and functionality

Electrical Performance Summary:

- Meets IEEE 802.3 specification
- 350µH minimum OCL with 8mA bias current
- High performance for maximum EMI suppression

Electrical Specifications @ 25°C — Operating Temperature 0°C to +70°C

RoHS-5 Compliant ² Part Number (Number of Ports)	RoHS-6 Compliant ³ Part Number (Number of Ports)	Turns Ratios		Tab Option	LEDs ¹ L/R	Insertion Loss TX/RX (dB TYP)	Return Loss (dB TYP) 100Ω (±15Ω)				Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (Vrms MIN)
		TX	RX				1-100 MHz	1-10 MHz	30 MHz	60-80 MHz	1-10 MHz	30-60 MHz	60-100 MHz	1-50 MHz	50-130 MHz	
J8064D628A (1x2)	J8064D628ANL (1x2)	1CT:1CT	1CT:1CT	DOWN	G/Y	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500	
J8064D648A (1x4)	J8064D648ANL (1x4)	1CT:1CT	1CT:1CT	DOWN	G/Y	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500	
J8064D668A (1x6)	J8064D668ANL (1x6)	1CT:1CT	1CT:1CT	DOWN	G/Y	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500	
J8064D688A (1x8)	J8064D688ANL (1x8)	1CT:1CT	1CT:1CT	DOWN	G/Y	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500	
J8064E62 (1x2)	J8064E62NL (1x2)	1CT:1CT	1CT:1CT	DOWN	—	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500	
J8064E64 (1x4)	J8064E64NL (1x4)	1CT:1CT	1CT:1CT	DOWN	—	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500	
J8064E66 (1x6)	J8064E66NL (1x6)	1CT:1CT	1CT:1CT	DOWN	—	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500	
J8064E68 (1x8)	J8064E68NL (1x8)	1CT:1CT	1CT:1CT	DOWN	—	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500	

NOTES:

1. LEDs Left/Right: G = green; Y = yellow; "—" = none.
Other LED options by request.

2. RoHS-5 - Product does not contain 5 out of the 6 banned substances specified in the RoHS directive. Product contains lead in applications considered as solders.

3. RoHS-6 - Product does not contain 5 out of the 6 banned substances specified in the RoHS directive. Some internal connections may contain lead in high temperature solder (solder alloys containing more than 85% lead).

RJ45 Durability Testing Rating

Part Number	Mating Force (MAX)	Unmating Force (MAX)	Durability	Plug to Jack Retention (MIN)
J8 Series	5lbs./2.268kgs.	5lbs./2.268kgs.	750 Insertions	20lbs./9.072kgs.

RJ45 Material Specification

Part Number	Shield		Contact			Housing		MSL ² Rating
	Material	Finish	Material	Plating Area	Solder Area ³	Material	Specification	
J8 Series	Brass	10-20µ inches thick nickel over 10-20µ inches thick nickel	Phosphor Bronze	30µ inches gold over 30-80µ inches nickel	75-300µ inches tin-lead over 30-80µ inches bright nickel	Thermoplastic	UL 94 V-0	1

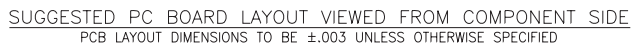
Notes: 1. Connector dimensions comply with FCC dimension requirements.

3. NL parts are tin matte finish over nickel.

2. MSL - Moisture Sensitivity Level rating from 1 to 5 (highest rating = 1, lowest rating = 5).

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J8064D628A



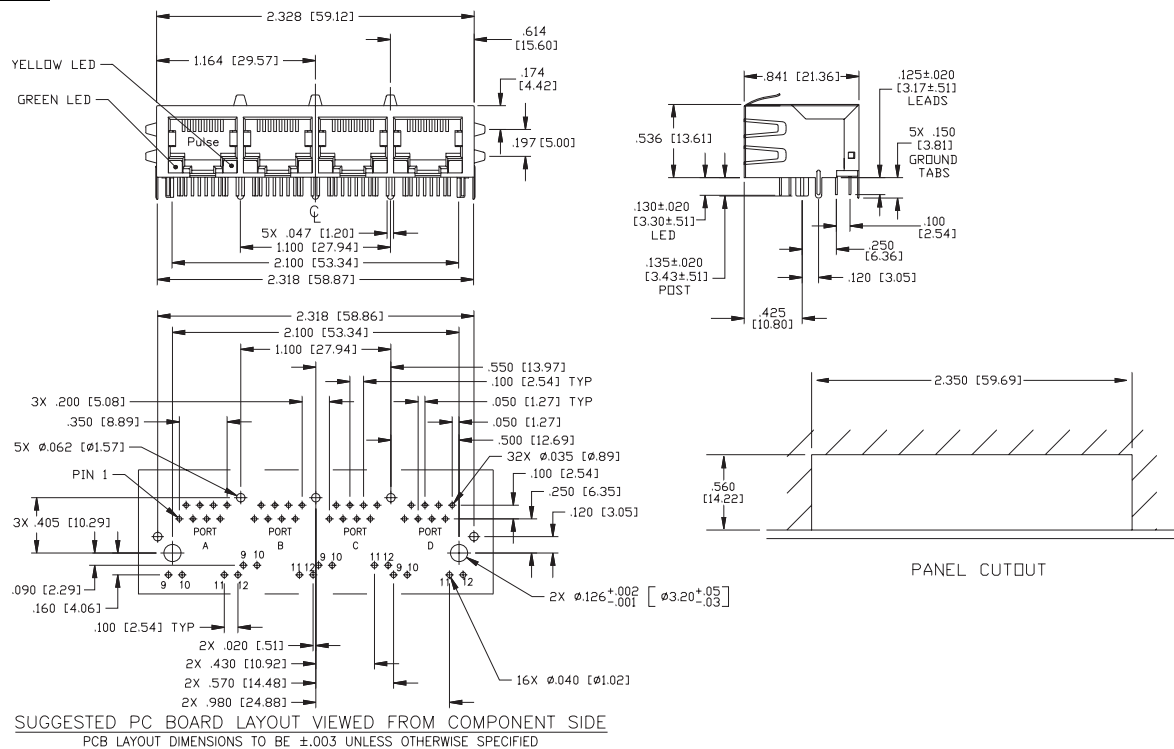
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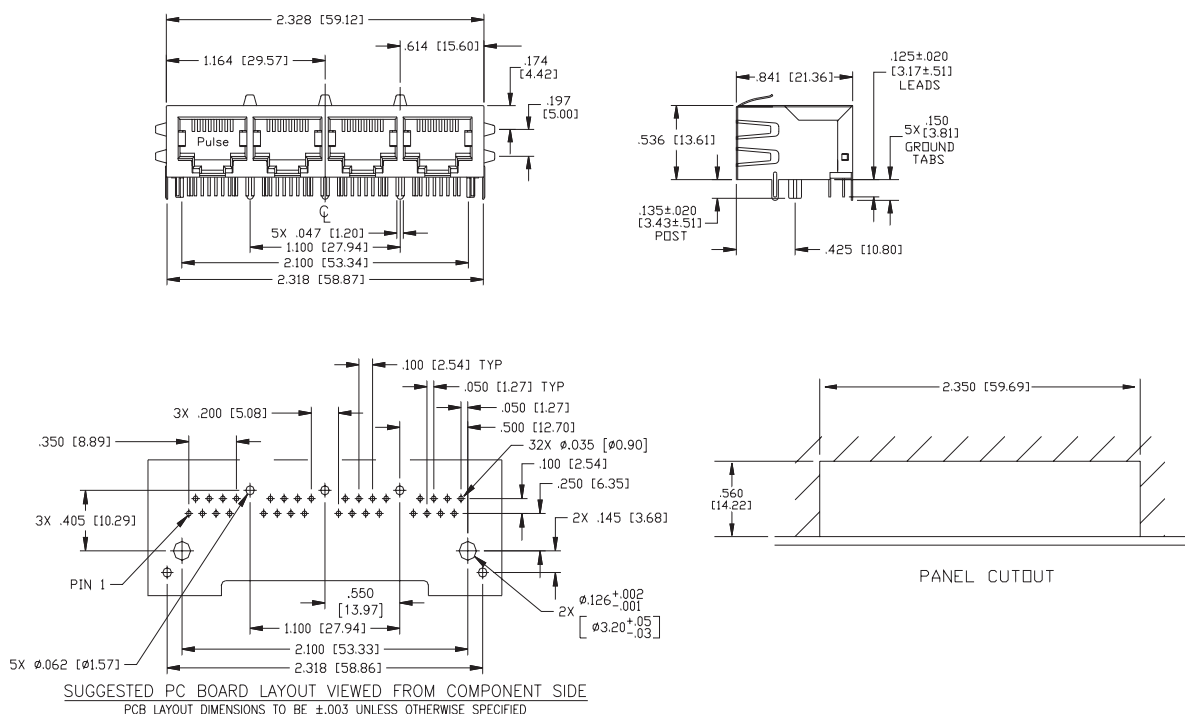


Mechanicals

J8064D648A



J8064E64



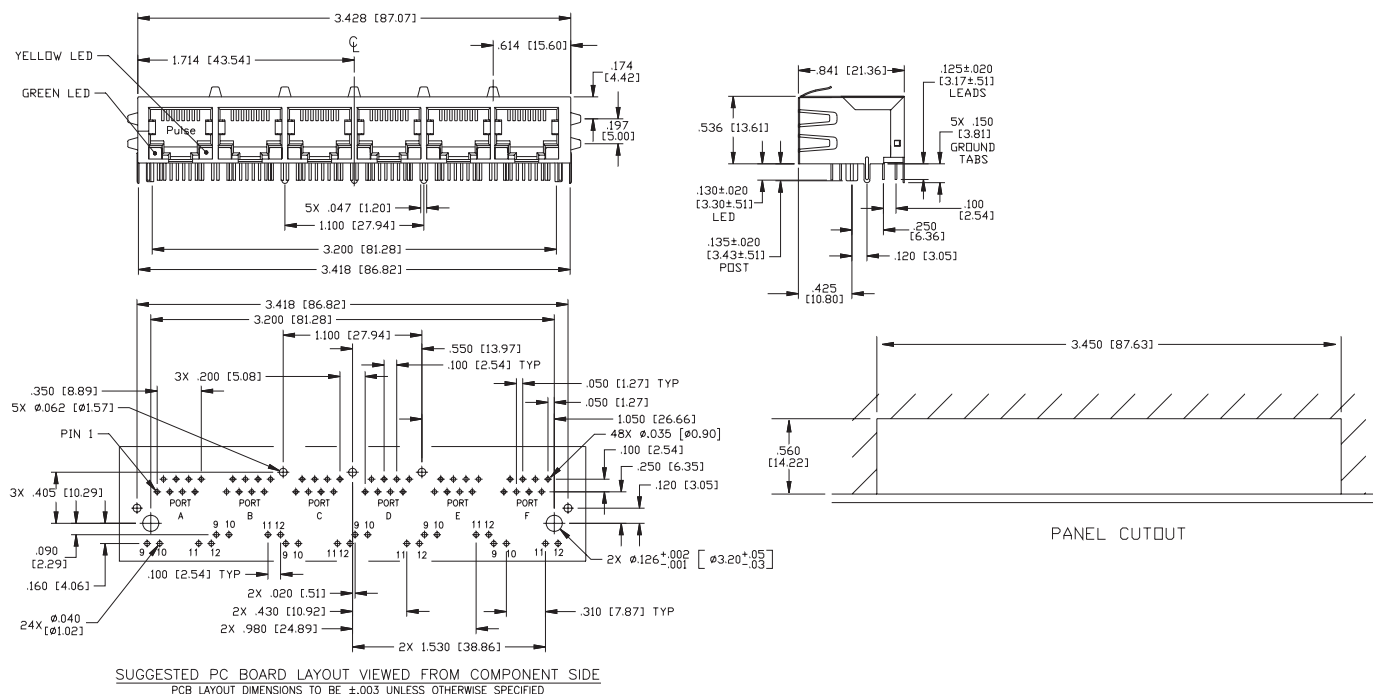
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1xN GangjackL

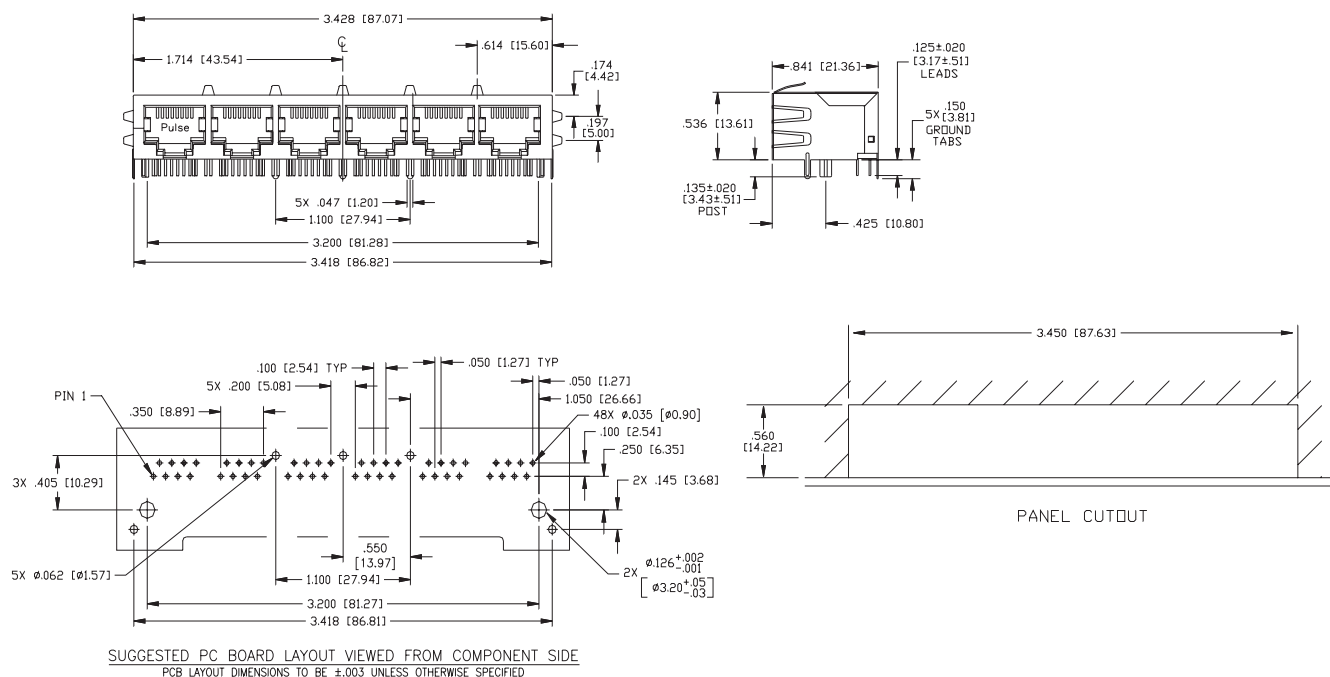


Mechanicals

J8064D668A



J8064E66



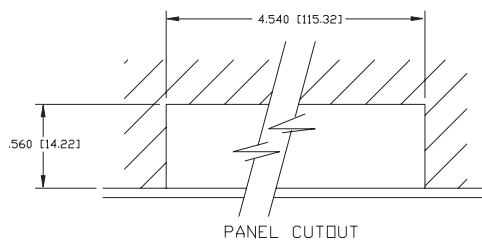
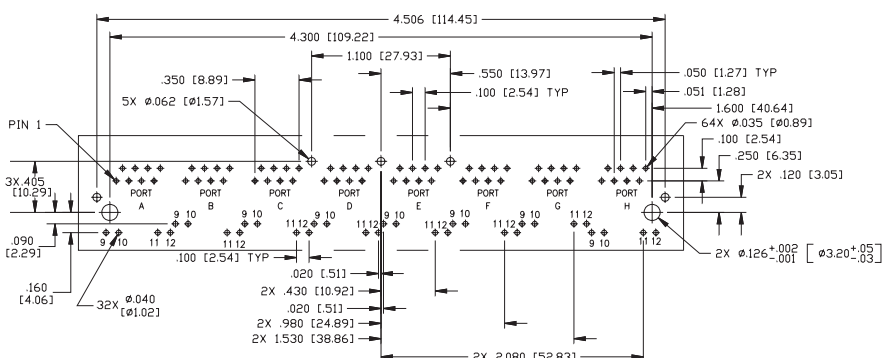
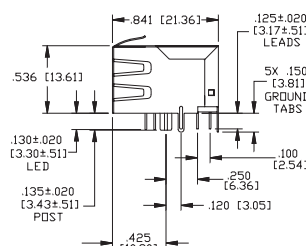
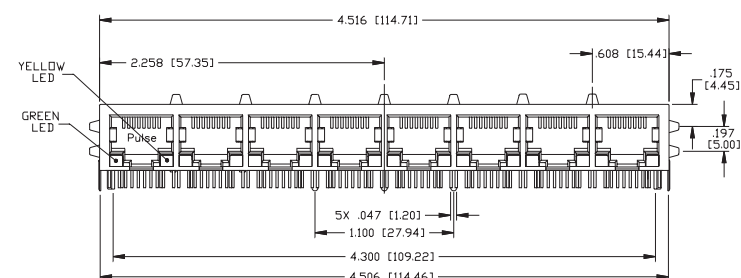
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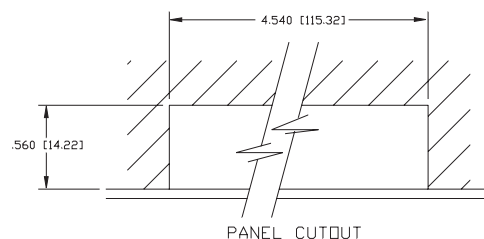
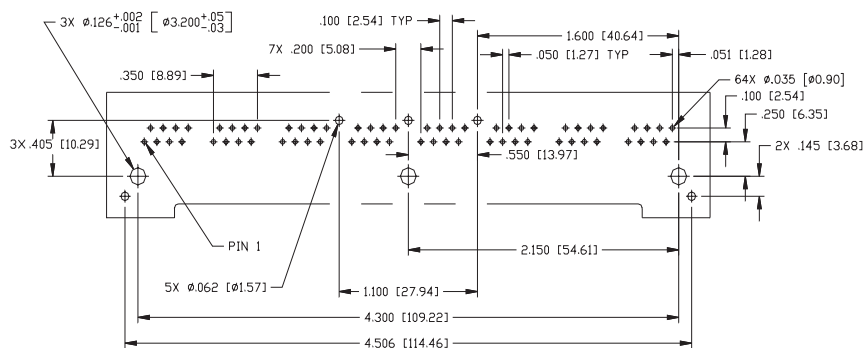
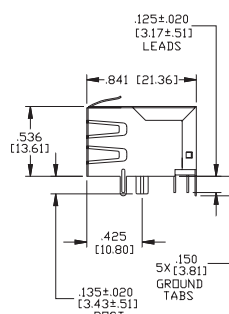
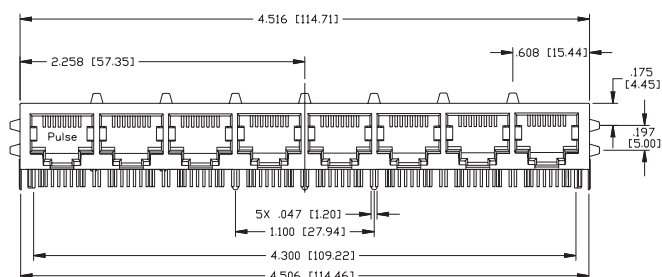
Mechanicals

J8064D688A



SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE
PCB LAYOUT DIMENSIONS TO BE ± 0.003 UNLESS OTHERWISE SPECIFIED

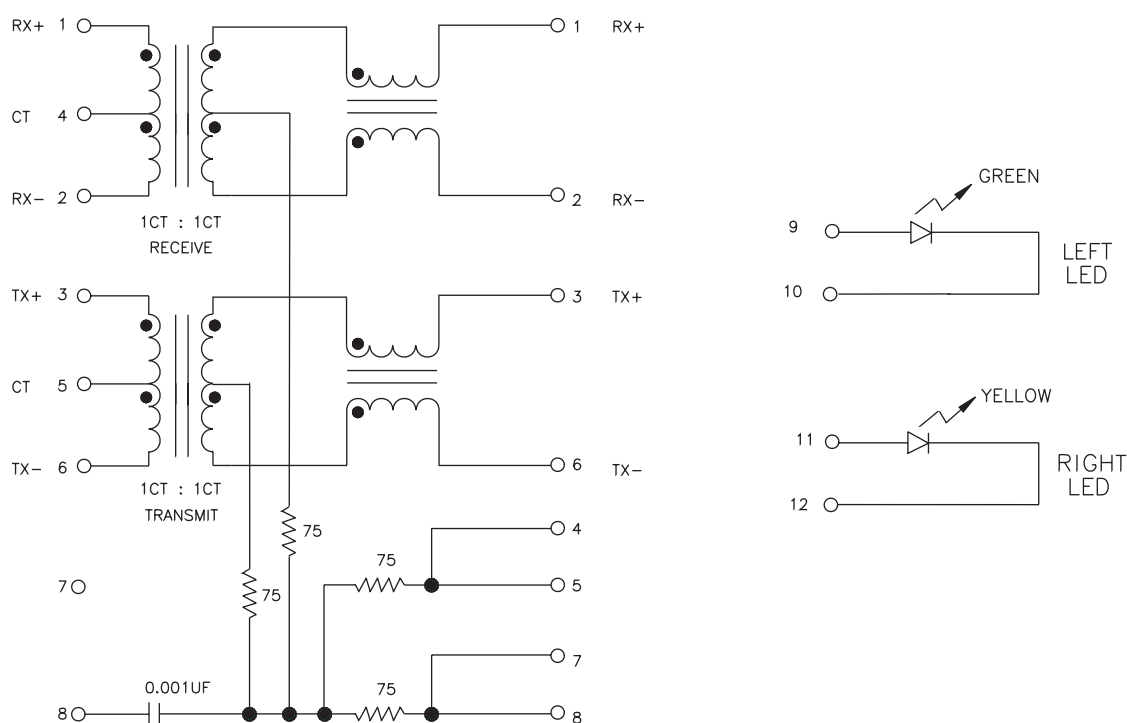
J8064E68



SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE
PCB LAYOUT DIMENSIONS TO BE $\pm .003$ UNLESS OTHERWISE SPECIFIED

Schematic for J8 Series

J8064D6X8A/J8064E6X (where X = 2, 4, 6 or 8)



	1X2	1X4	1X6	1X8
	J8064D628A	J8064D648A	J8064D668A	J8064D688A
	J8064E62	J8064E64	J8064E66	J8064E68
Weight	10.9 grams	21.8 grams	32.7 grams	43.6 grams
Tray	10 /tray	10 /tray	10 /tray	10 /tray

For More Information:

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