

PULSEJACK™

1XN Giggie-Up10



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Description:

10/100/1000 Base-TX RJ45 1XN Tab-UP 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:

- 1XN Tab-UP 10-pin RJ45 with internal magnetics
- Options: 1X2, 1X4, 1X6, and 1X8 10/100/1000 Base-TX
- Available with or without LEDs
- Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP
- Internal magnetics are 100% electrically tested for HI-POT and functionality

Electrical Performance Summary:

- Internal magnetics options available
- Meets or exceeds IEEE 802.3ab standard for 1000Base-T
- 350 μ H minimum OCL with 8 mA bias current
- High performance for maximum EMI suppression
- Minimum 1500 Vrms isolation per IEEE 802.3 requirement



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

Part Number (Number of Ports)	Tab Option	LEDs ³ L/R	Insertion Loss TX/RX (dB TYP)	Return Loss (dB TYP) 100 Ω (±15 Ω)				Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (MIN)
			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	@60 Hz 1 MIN	
JG065Y729C (1x2)	UP	G/G	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500 Vrms	
JG065Y728 (1x2)	UP	G/Y	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500 Vrms	
JG065Y749C (1x4)	UP	G/G	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500 Vrms	
JG065Y748 (1x4)	UP	G/Y	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500 Vrms	
JG065Y768 (1x6)	UP	G/Y	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500 Vrms	
JG065Y788 (1x8)	UP	G/Y	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500 Vrms	

NOTES:

- Both transmit and receive channels meet IEEE 802.3 specifications.
- Different electrical and mechanical specifications can be accommodated. Contact Pulse Applications Engineering.
- LEDs Left/Right: G = green; Y = yellow.

RJ45 Durability Testing Rating

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

RJ45 Material Specification

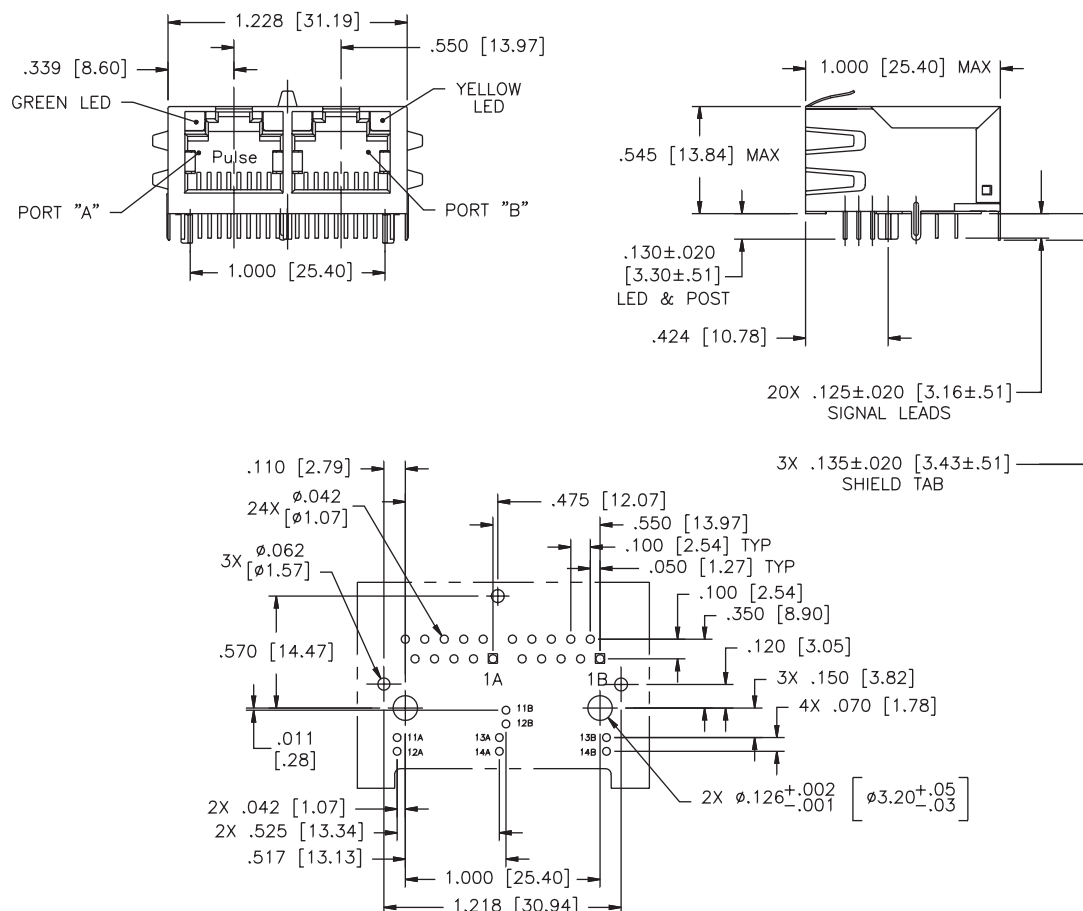
Part Number	Shield		Contact			Housing	
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification
JG Series	Brass	10-20 μ inches thick nickel over 10-20 μ inches thick nickel	Phosphor Bronze	30 μ inches gold over 30-80 μ inches nickel	75-300 μ inches tin-lead over 75-300 μ inches nickel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

Notes:

- All connector part numbers starting with the series prefix JG comply to the above limits.
- Connector dimensions comply with FCC dimension requirements.

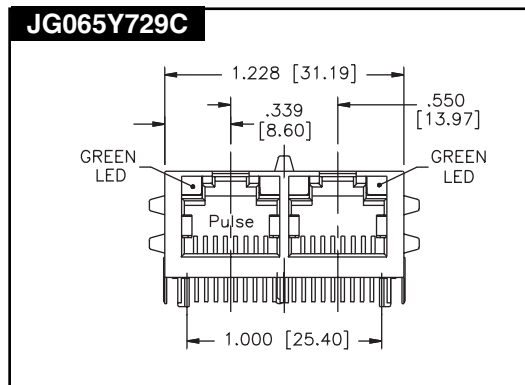
Mechanicals

JG065Y728



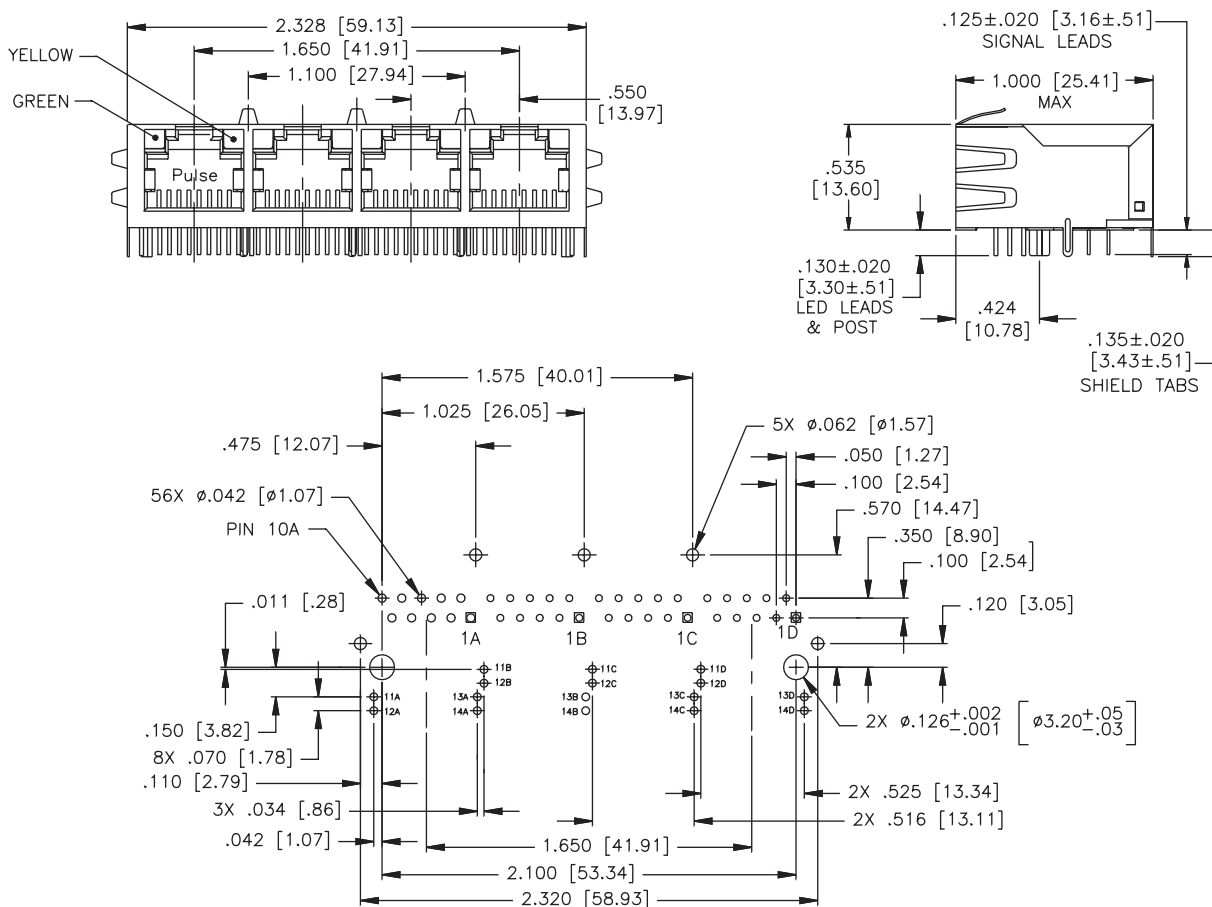
SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE
PCB LAYOUT DIMENSIONS TO BE ±.003 UNLESS OTHERWISE SPECIFIED

JG065Y729C

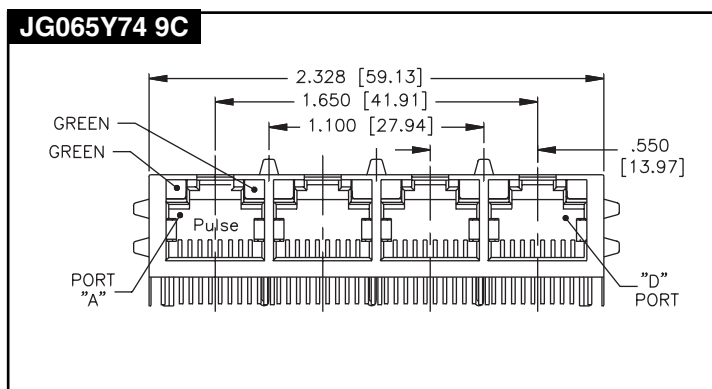


Mechanicals

JG065Y748

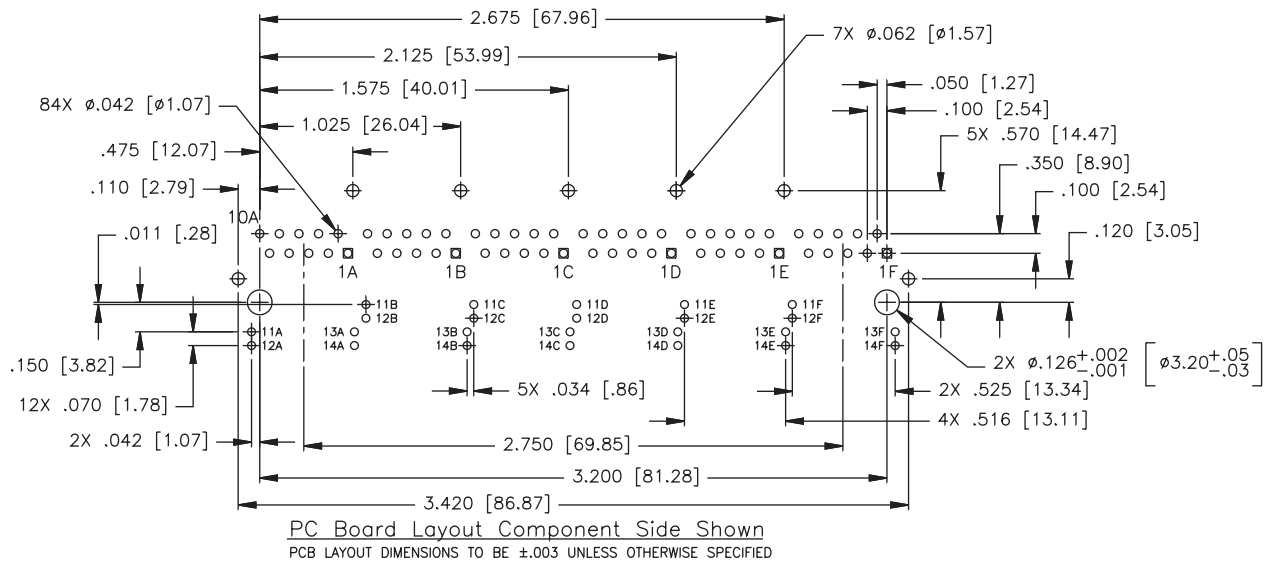
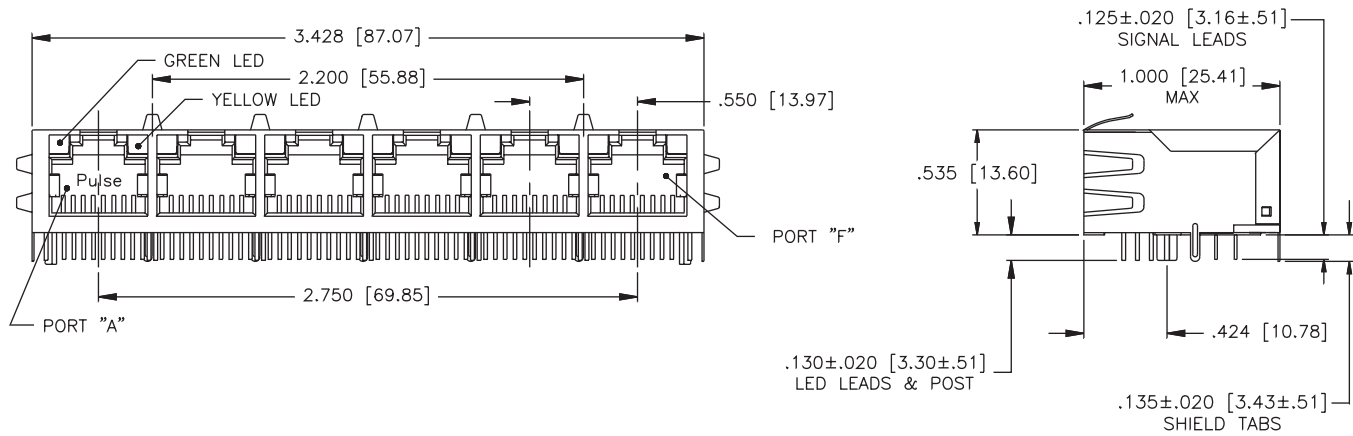


PC Board Layout Component Side Shown
PCB LAYOUT DIMENSIONS TO BE $\pm .003$ UNLESS OTHERWISE SPECIFIED



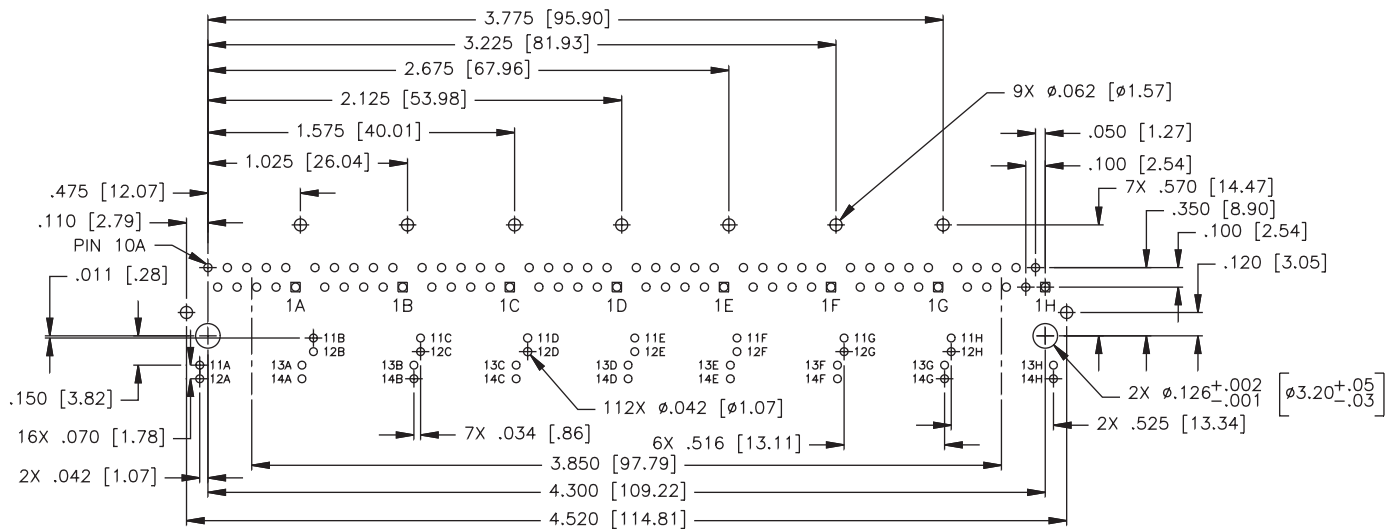
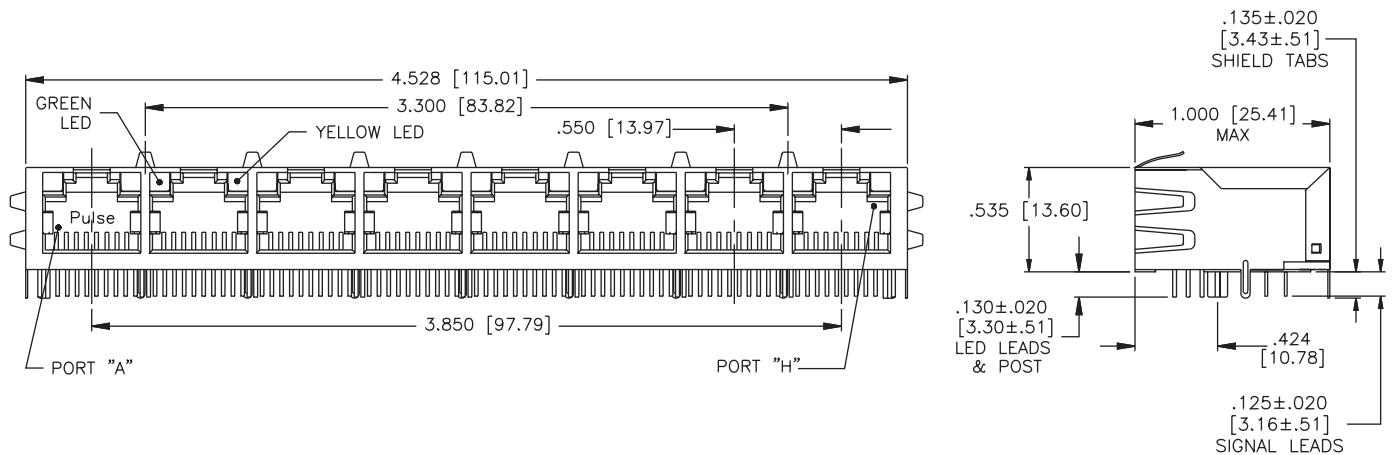
Mechanicals

JG065Y768



Mechanicals

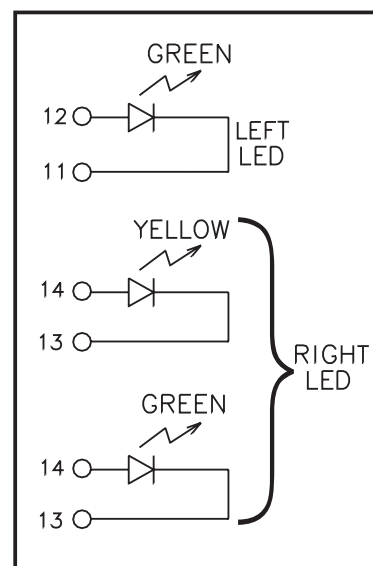
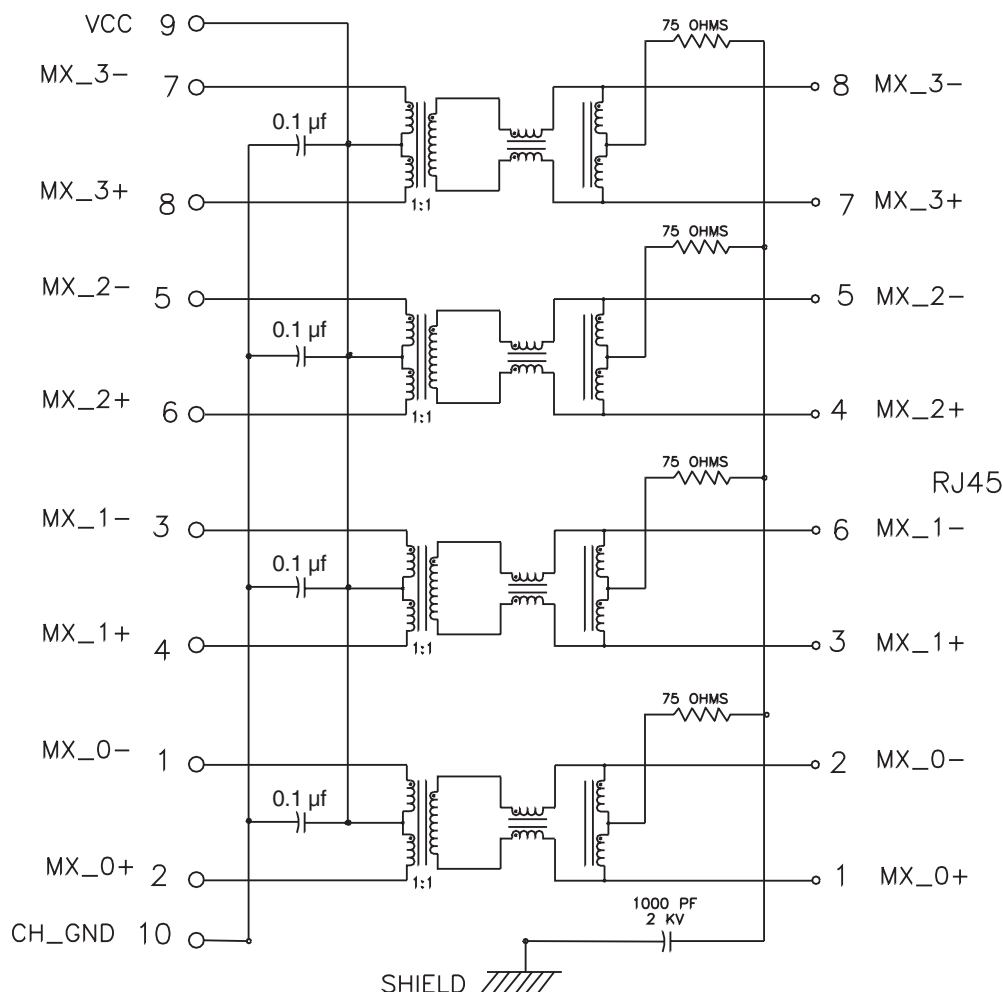
JG065Y788



PC Board Layout Component Side Shown
PCB LAYOUT DIMENSIONS TO BE ±.003 UNLESS OTHERWISE SPECIFIED

Schematic for JG Series

JG065Y7XX/C (where X = 2, 4, 6 or 8)



For More Information :

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