PULSEJACK™
Single-Port Gigabit PoE

Pulse A YAGEO Company

Description:

10/100/1000 Base-TX RJ45 single port with integrated magnetics – Designed for most leading PHY manufacturers with the addition of Power over Ethernet, according to IEEE 802.3af



Features and Benefits:

- RoHS peak wave solder temperature rating 260°C
- Single port Connector for PoE applications

Electrical Performance Summary:

- 350µH minimum OCL with 8mA bias current
- High performance for maximum EMI suppression
- 15W, 350mA, 48V PoE rating

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

RoHS Compliant Part No.	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)
			1-100 MHz	30 MHz	60-80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	1-50 MHz	50-130 MHz	@60Hz 1 MIN
JK0-0133NL	UP	—	-1.0	-16	-12	-10	-44	-37	-33	-27	-20	1500
JK0-0145NL	UP	G/Y	- 1.0	-16	-12	-10	-44	-37	-33	-27	-20	1500
JK0-0161NL	UP	—	- 1.0	-16	-12	-10	-44	-37	-33	-27	-20	1500

NOTES:
1. 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)
JK0 Series	5lbs./2.268kgs.	5lbs./2.268kgs.	500 Insertions	20lbs./9.072kgs.

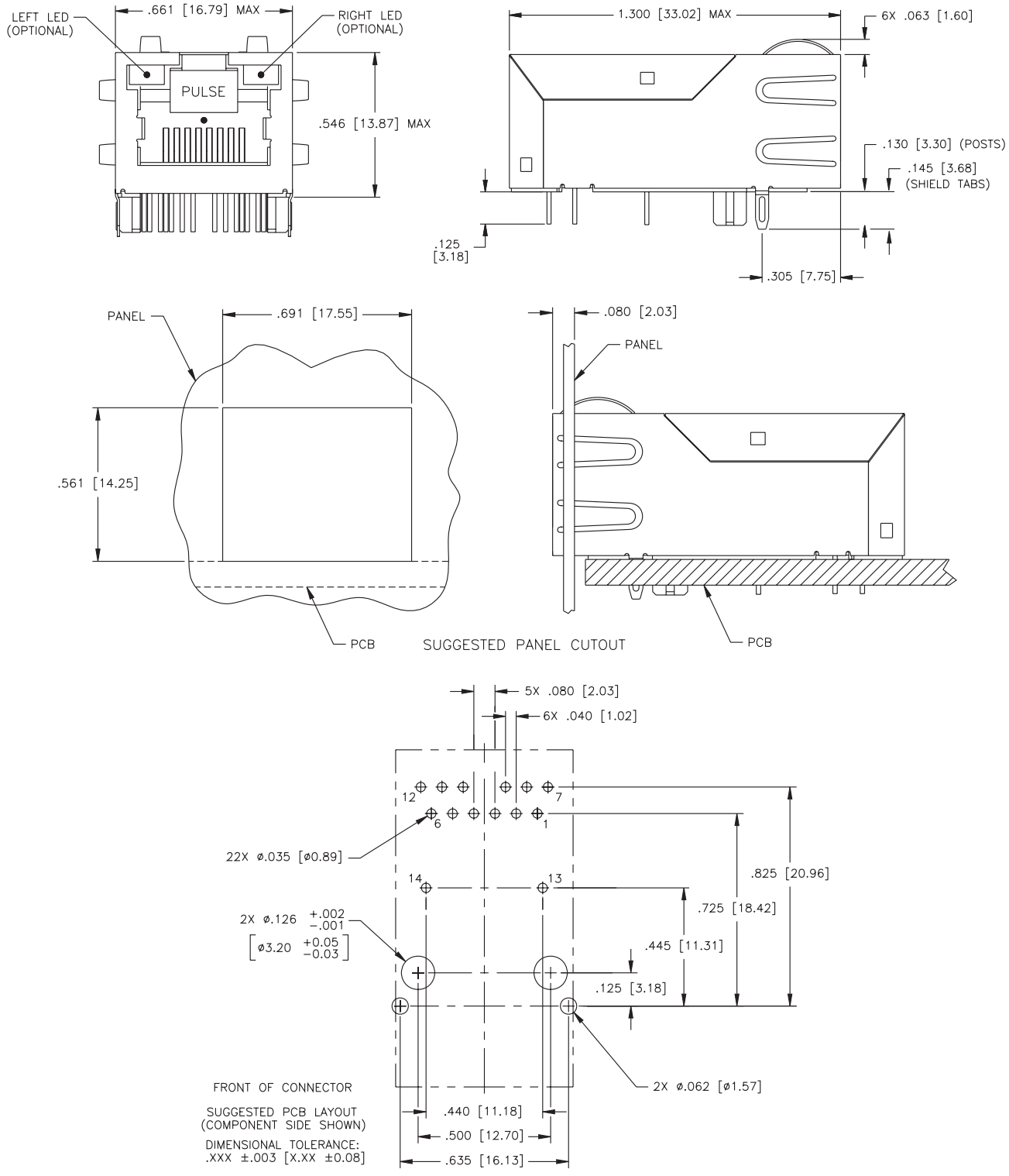
RJ45 Material Specification

Part Number	Shield		Contact			Housing		MSL[3] Rating
	Material	Finish	Material	Plating Area	Solder Area[2]	Material	Specification	
JK0 Series	Brass	20-40µ inches thick nickel over brass	Phosphor Bronze	15µ inches gold over 30-80µ inches nickel	75-300µ inches tin-lead over 75-300µ inches nickel	Thermoplastic	UL 94 V-0	1

NOTES:
1. Connector dimensions comply with FCC dimension requirements.
2. NL parts are tin matte finish over nickel.
3. MSL - Moisture Sensitivity Level class limits = 1 to 5 (Highest: 1; Lowest: 5).

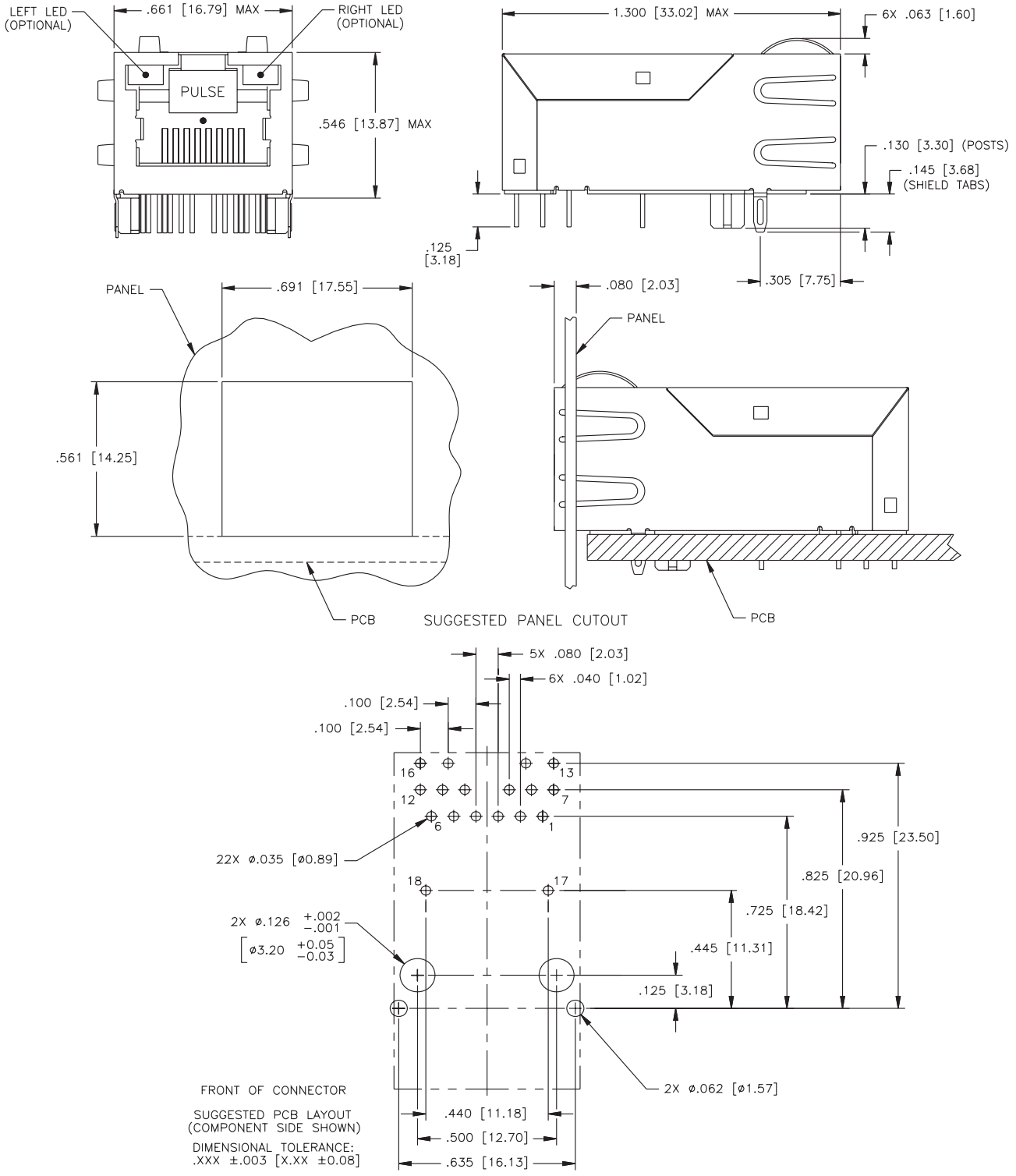
Mechanical

JK0-0133NL



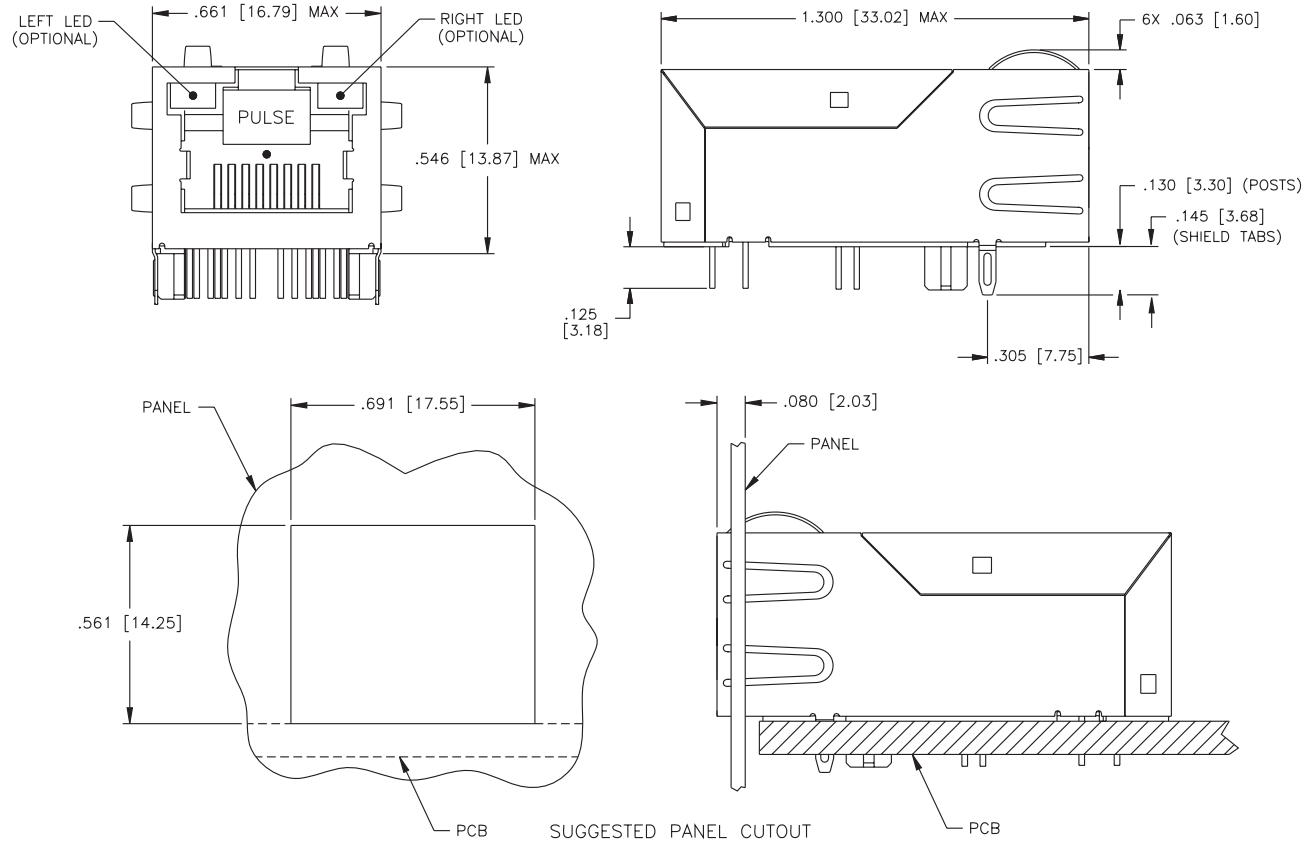
Mechanical

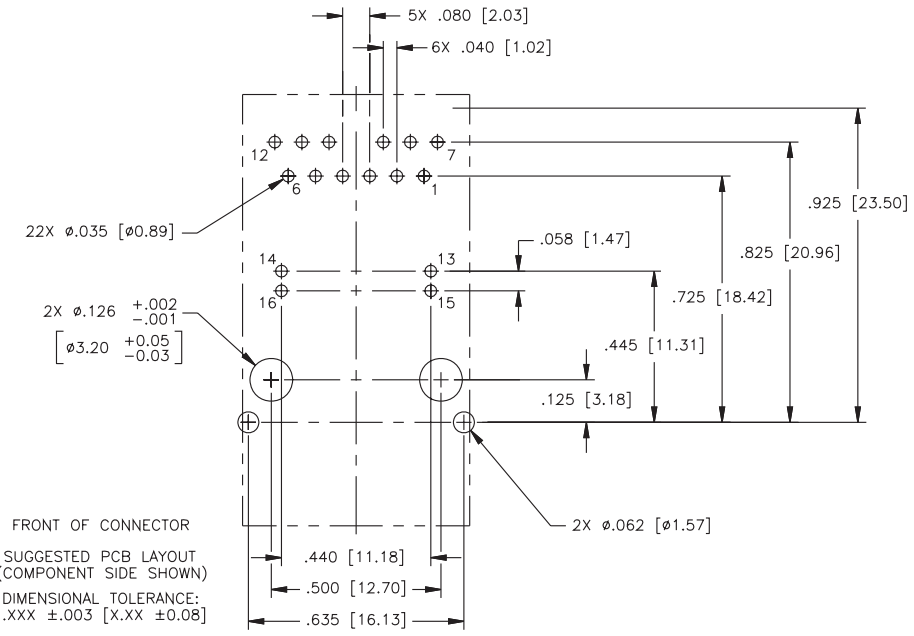
JK0-0145NL



Mechanical

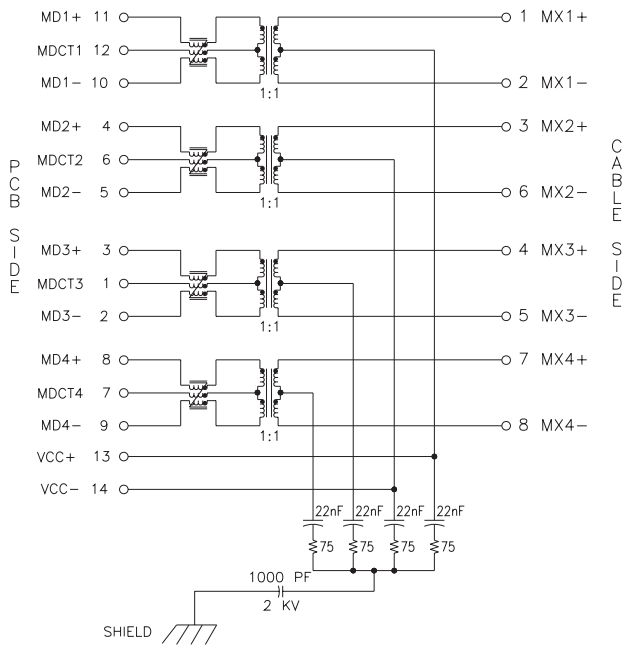
JK0-0161NL



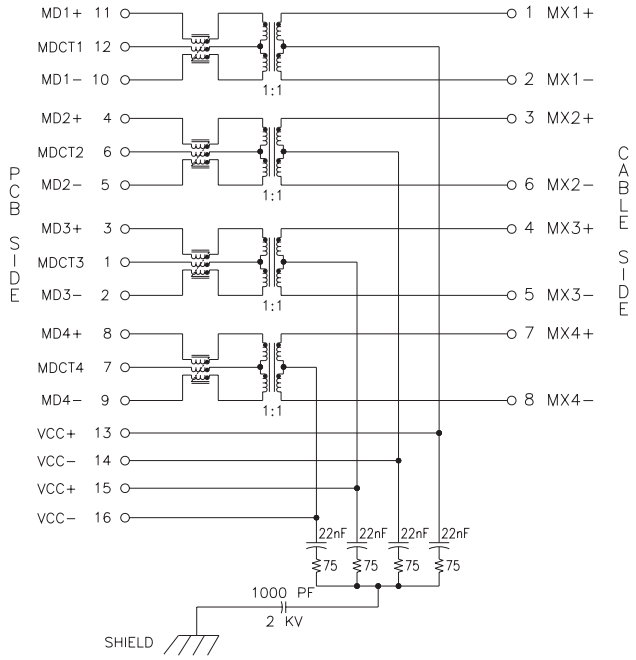


Schematics

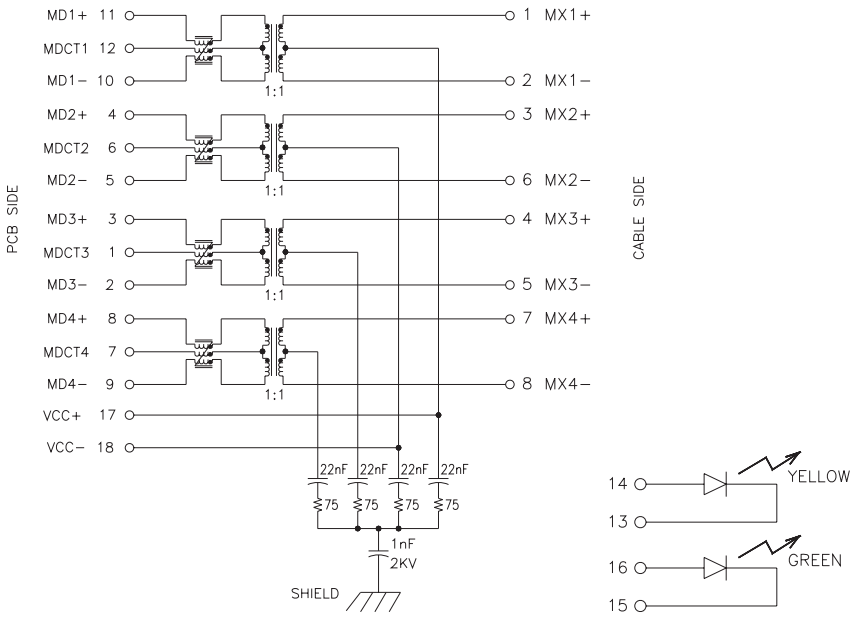
JK0-0133NL



JK0-0161NL



JK0-0145NL



For More Information:
Americas - prodinfonetworkamericas@pulseelectronics.com | **Europe -** comms-Apps-Europe@pulseelectronics.com | **Asia -** prodinfonetworkapac@pulseelectronics.com

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2019. Pulse Electronics, Inc. All rights reserved.

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Pulse Electronics:

BSPQ000603043N0B00 JXD0-2015NL PGL6395.121HLT W1902 BBUP00201209121Y00 DPX1608LKF3R2460A PA0369NL PA4320.334NLT PAT6261.003NLT JXD2-0Z10NL PA4341.301NLT PG2290.151HLT W3334B0150 P0585NL PA4341.221NLT W1093 PA2744NL PA4343.451NLT W3078 PE-68386NLT AWCS0012070736NJ00 PA4343.361NLT PE-67100NL E5J88-032-02-L PA4320.104NLT PD617-6000M243 ANT1204F007R0870A BDHE002520122R2MQ1 BSPQ000603041N4B00 PD380-4000S1NF