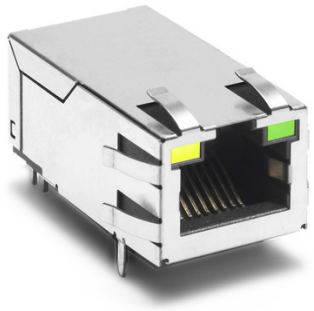
PulseJack™ Gigabit

Description:

100/1000 Base-T single port (1x1) RJ45 integrated connector module (ICM), designed to support Network Interface Cards (NIC), LAN-on-Motherboard (LOM), and PC applications. Availabe in TAB-UP configuration and with or without LEDs.



Features and Benefits:

- *Compliant with IEEE 802.3 standard*
- *350µH minimum OCL with 8mA bias current*
- *Suitable for CAT 5 and 6 Fast Ethernet cable or better UTP*
- *High performance for maximum EMI suppression*
- *RoHS peak wave solder temperature rating 260°C*

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

RoHS Part Number	Tab Orientation	LEDs L/R	Insertion Loss TX/RX (dB)	Return Loss (dB TYP) 100Ω (± 15 Ω)				Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot
			1-100 MHz	1-10 MHz	30 MHz	60-80 MHz	80-100 MHz	1-10 MHz	30-60 MHz	60-100 MHz	1-125 MHz	125-500 MHz	@ 60Hz 1 MIN
JK0-0114NL	UP	G/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	2250 VDC
JK0-0116NL	UP	Y-G/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	2250 VDC
JK0-0117NL	UP	NONE	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	2250 VDC
JK0-0136NL	UP	Y-G/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	2250VDC
JK0-0187NL	UP	G/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	2250VDC
JK0-0193NL	UP	G/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	2250VDC

Notes: **1.** LEDs Left/Right: **G** = green; **Y** = yellow; **Y-G** = Bicolor

RJ45 Durability Testing Rating

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

RJ45 Material Specification

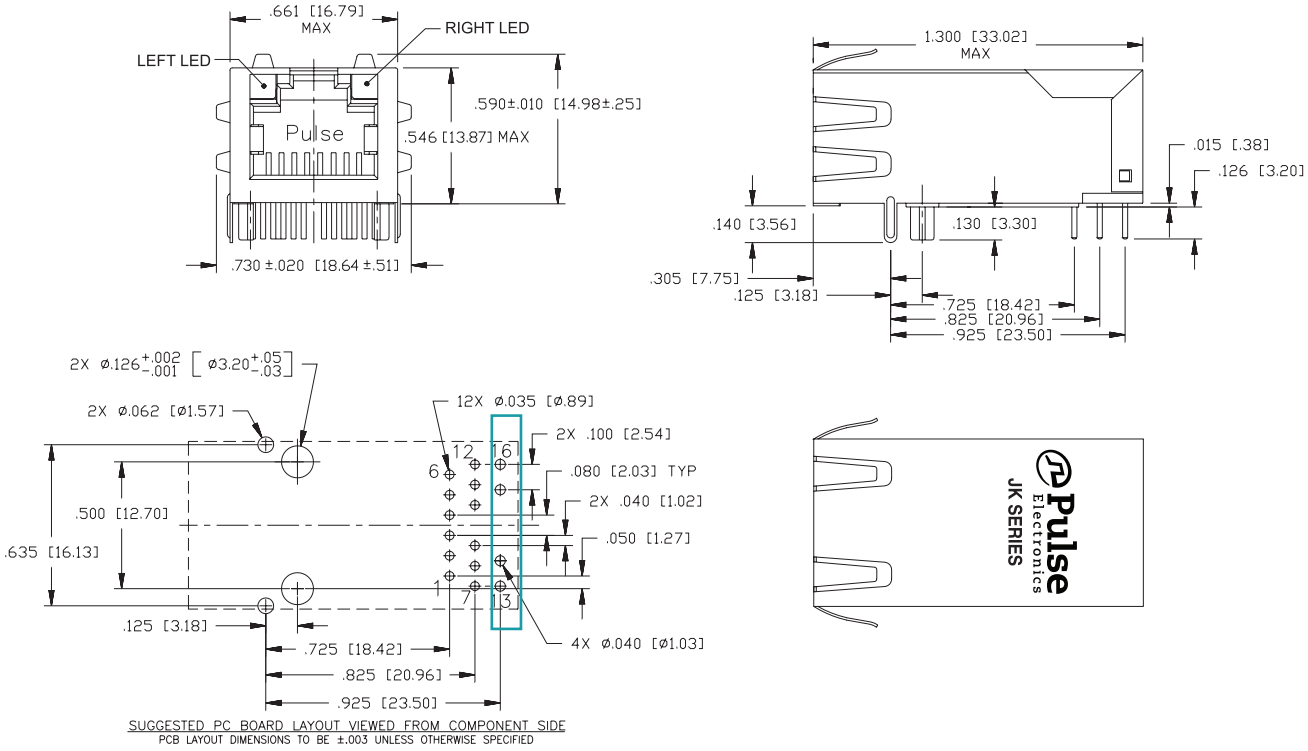
Part Number	Shield		Contact			Housing		
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification	MSL
JK Series	Brass	30-50µ inches thick Nickel over brass	Phosphor Bronze	50µ inches gold over 50µ inches nickel	Tin matte finish	Thermoplastic	UL 94 V-0	1

Notes: **1. Connector** dimensions comply with FCC dimension requirements. **2. MSL** = Moisture Sensitivity Level class limits = 1 to 5, highest (1) to lowest (5)

USA 858 674 8100 Germany 49 7032 7806 0 Singapore 65 6287 8998 Shanghai 86 21 62787060 China 86 755 33966678 Taiwan 886 3 4356768

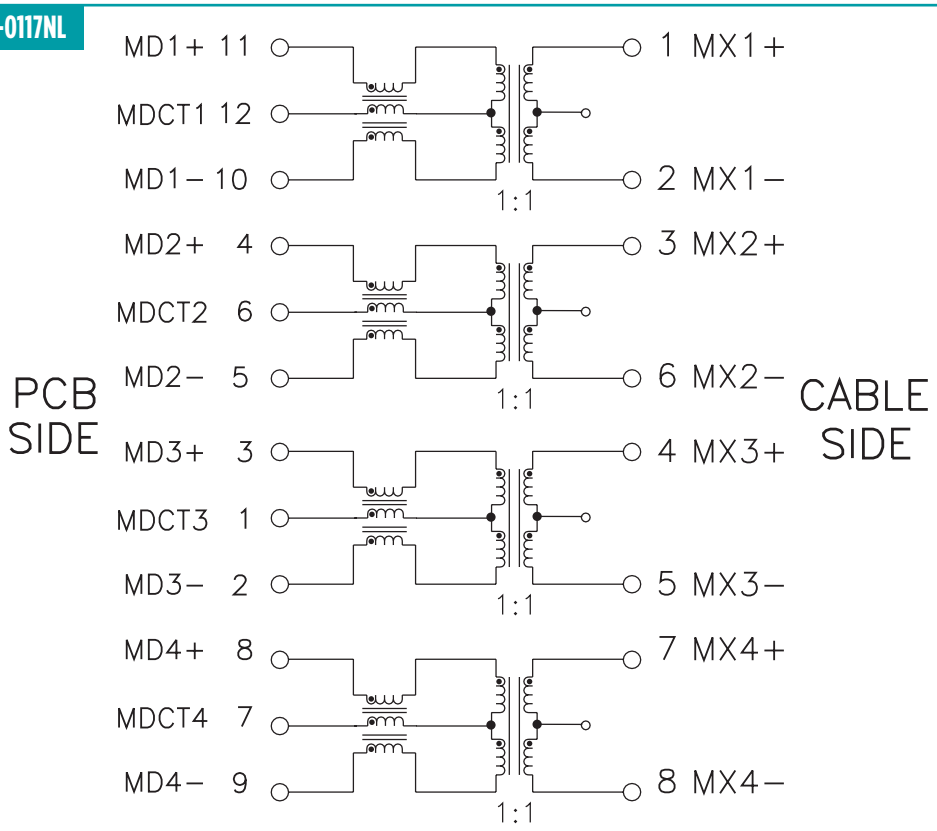
Downloaded from Arrow.com.

Mechanicals



Schematic

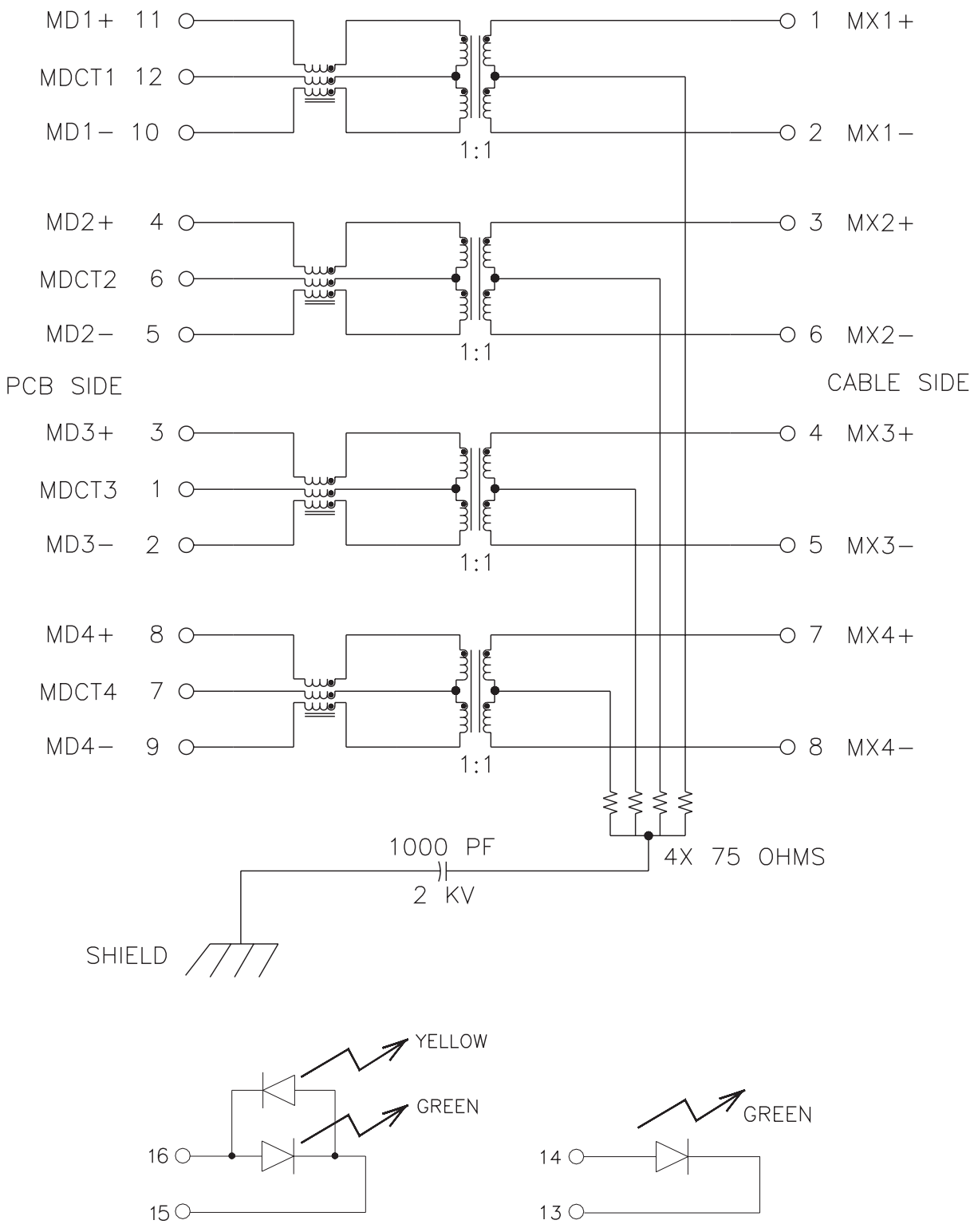
JK0-0114NL, JK0-0116NL, JK0-0117NL



Downloaded from Arrow.com.

Schematic *(continued)*

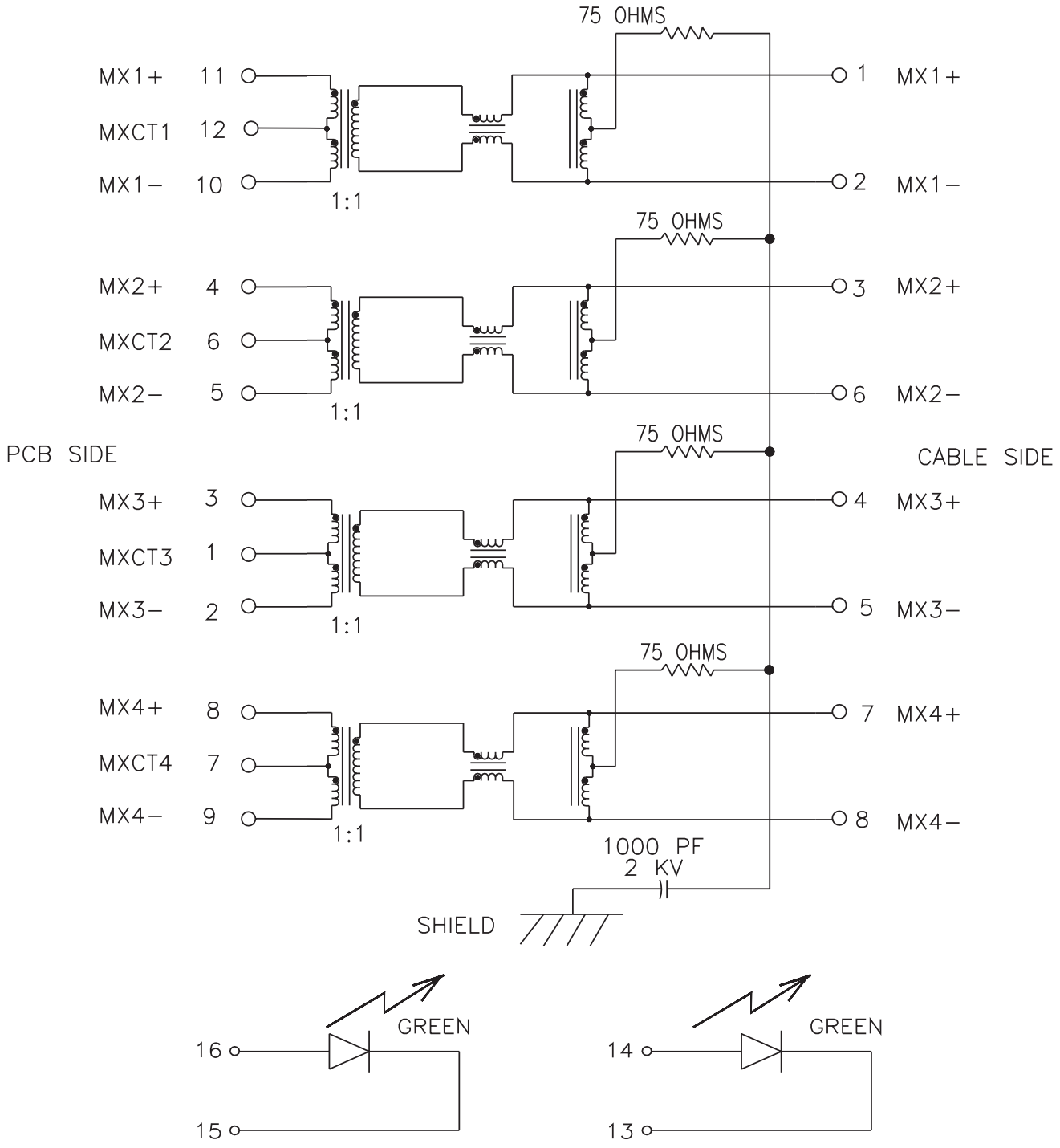
JK0-0136NL



Downloaded from Arrow.com.

Schematic *(continued)*

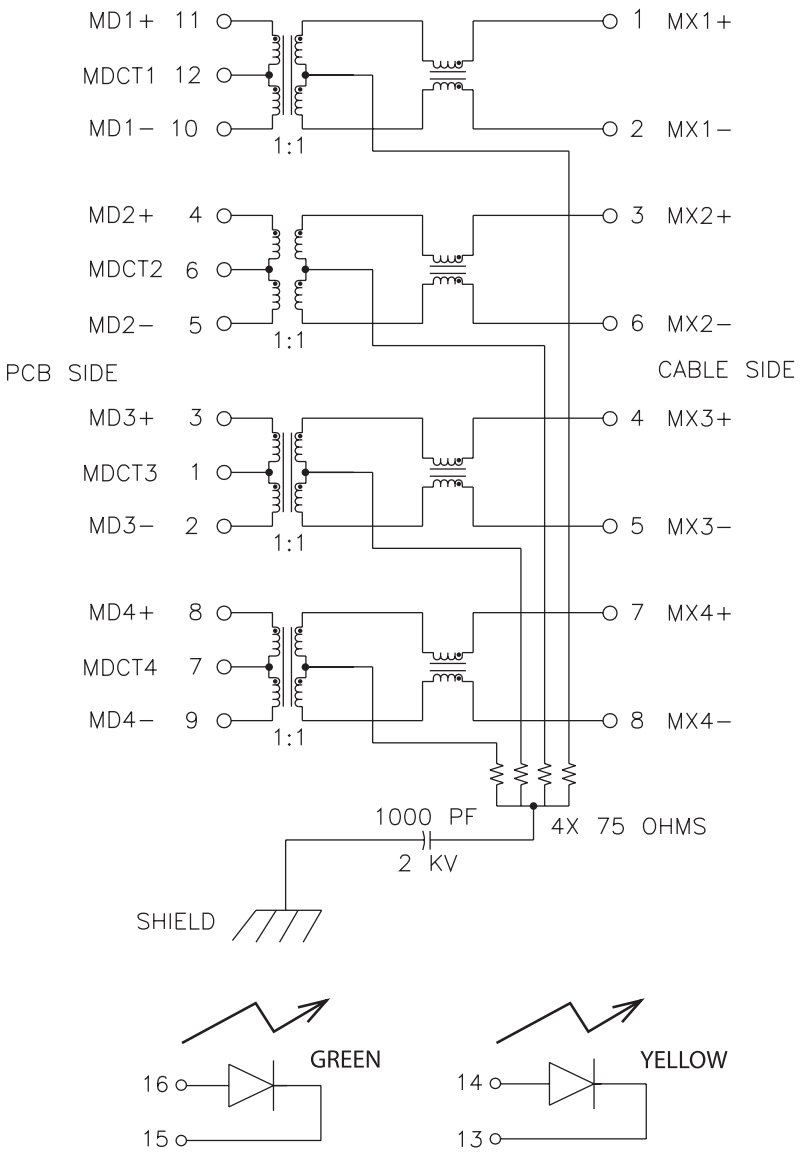
JK0-0187NL



Downloaded from Arrow.com.

Schematic *(continued)*

JK0-0193NL



For More Information

Pulse Worldwide Headquarters
12220 World Trade Drive
San Diego, CA
92128
U.S.A.

Tel: 858 674 8100

Pulse Europe
Einsteinstrasse 1
D-71083 Herrenberg
Germany

Tel: 49 7032 7806

Pulse China Headquarters
B402, Shenzhen Academy of Aerospace Technology Bldg.
10th Kejinan Road
High-Tech Zone
Nanshan District
Shenzen, PR China
518057

Pulse North China
Room 2704/2705
Super Ocean Finance Ctr.
2067 Yan An Road West
Shanghai 200336
China

Pulse South Asia
135 Joo Seng Road
#03-02
PM Industrial Bldg.
Singapore 368363

Tel: 65 6287 8998
Fax: 65 6287 8998

Pulse North Asia
3F, No. 198
Zhongyuan Road
Zhongli City
Taoyuan County 320
Taiwan R. O. C.
Tel: 886 3 4356768
Fax: 886 3 4356823
(Pulse)

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, 2012. Pulse Electronics, Inc. All rights reserved.

Downloaded from Arrow.com.