Dual RX Channel,
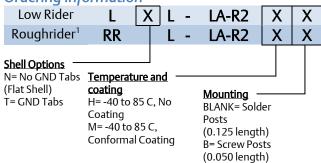**Multimode 1x/2x Fiber Channel Applications**
3.3V, 1310nm Mode Conditioned FP Laser

Applications

The LxL-LA-R2xx multimode optical dual receivers provide low profile, cost effective solutions for 1x and 2x Fiber Channel multimode optical fiber data links with a duplex LC connector interface.

These receivers are fully compliant with the 1x and 2x Fiber Channel standards but can be used for any other data communications purpose within their operating parameters.

Ordering Information

Low Rider	L	X	L	-	LA-R2	X	X
Roughrider[1]	RR		L	-	LA-R2	X	X

Shell Options
N= No GND Tabs (Flat Shell)
T= GND Tabs

Temperature and coating
H= -40 to 85 C, No Coating
M= -40 to 85 C, Conformal Coating

Mounting
BLANK= Solder Posts (0.125 length)
B= Screw Posts (0.050 length)

1. See product data sheet for information on Roughrider products.

Key Features & Benefits

- Dual RX receiver, lower cost than two independent units.
- Low Profile Design - 0.386 inches max. height
- Surface mount I/O pins for high speed signal integrity
- All metal body, solder or screw mount options
- Industrial Temp Range, Vibration tolerant design
- RX data squelch on Signal Detect deassert
- Individual (separate) +3.3 V power supply per port
- Industry standard duplex multimode LC receptacle
- Compliant with ANSI Fiber Channel FC-PI / PH2
- EN-60825/ IEC-825 / CDRH Class 1 Compliant
- Optional Parylene C Conformal Coating
- Optional addition of fiber pigtail

Receivers: VCCTX = 3.135V to 3.465V, T_A = Operating Temperature Range

Parameter	Symbol	MIN	Typical	MAX	Unit
Optical Sensitivity[1]	P_I	-20		0	dBm
Optical Modulation Amplitude (p-p)	OMA	15			μW
Optical Return Loss	ORL	12			dB

1. BER=10^{-12} @ 1.25Gbps, PRBS 2^7-1, NRZ, Compliant with ANSI X3.297 / FC-PH-2

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Link Distances

Fiber Specification	Fiber Specification	Distance
62.5/125 (200MHz*Km)	2x Fiber Channel – ANSI X3.297 FC-PI	150M
	1x Fiber Channel – ANSI X3.297 FC-PH-2	300M
50/125 (500MHz*Km)	2x Fiber Channel – ANSI X3.297 FC-PI	300M
	1x Fiber Channel – ANSI X3.297 FC-PH-2	500M

For more information on this product consult the LxL-LA-R2xx product data sheet.

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