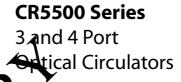


# Product Bulletin



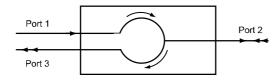
Optical circulators are non-reciprocal devices that redirect light from port to port sequer fially in only one direction. In advanced optical commonication systems, optical circulators are used to bidirectional transmission, WDM network fiber amplifier systems, and for optical time domain reflectometer (OTDP) monitoring.

JDS Uniphase's new optical circulators feature a small package, high isolation (45 dB typical) over a wide operational—avelength range; low insertion loss/(7,7)B typical); low polarization dependent loss (PNL, 0.05 dB typical); low polarization mode dispersion (PMD, 0.01 ps typical); and excellent stability.

# Configuration

Q-manus Crosco

# 3 Port



Port  $1 \rightarrow Port 2$ Port  $2 \rightarrow Port 3$ 

#### **Key Features**

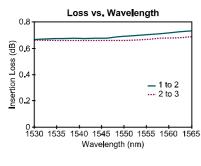
- Low insertion loss
- · High isolation
- Low PDL
- Low PMD
- High return loss
- Miniature package

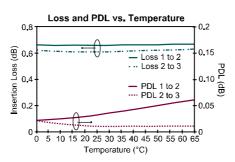
# **Applications**

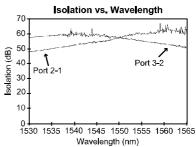
- Fiber amplifier systems
- WDM add/drop
- WDM networks
- Bidirectional transmission systems
- OTDR and sensing systems
- Test instruments

#### **Performance**

#### 3 Port







## **Specifications**

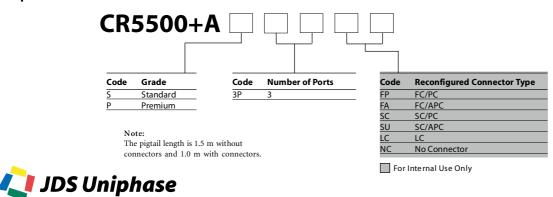
Parameter	3 Port Premium Grade – CR5500-P	3 Port Standard Grade – CR5500
Wavelength	1530 to 1565 nm	1530 to 1565 nm
Number of ports	3	3
Optical routing	Port $1\rightarrow 2\rightarrow 3$	Port 1→2→3
Insertion loss <sup>1</sup>	0.7 dB typical, 0.9 dB maximum	0.8 dB typical, 1.0 dB maximum
Isolation (over wavelength)	45 dB typical, >40 dB minimum	40 dB typical, >30 dB minimum
PDL	0.05 dB typical, 0.12 dB max num	0.07 dB typical, 0.15 dB maximum
PMD	0.01 ps typical, 0.05 ps n ximux	0.01 ps typical, 0.05 ps maximum
Directivity (1→3)	>50 dB	>50 dB
Return loss <sup>1</sup>	>50 dB	>45 dB
Fiber type	9/125/250 μm SM S	9/125/250 μm SMF
Fiber length	1.5 m (ng connector 1.0 m (with connectors)	1.5 m (no connectors), 1.0 m (with connectors)
Dimensions (cylindrical D x L)	5.5 x (1 m)	5.5 x 61 mm
Operating temperature	0 50 %	0 to 50 °C
Storage temperature	-40 to 25 °C	-40 to 85 °C

<sup>1.</sup> Excluding connectors (if installed).

### **Ordering Information**

Indicate your requirements by se, exting one option from each configuration table. Please print the corresponding codes in the available boxes to form your part number. For more information on this or other products and their availability, please contact your local JDS Uniphase sales representative or JDS Uniphase directly at 613 727-1303, or by fax 613 727-8284, or via email at sales@ca.jdsunph.com, or visit our Web site at www.jdsunph.com.

Sample: CR5500+AS3PFP





K2G 5W8 Canada