Optical Circulator (Three-Port)



Features and Benefits

Ultra-Low PDL and PMD
High Return Loss
High Isolation
Low Insertion Loss
Epoxy-Free in Optical Path

Optical circulators are non-reciprocal devices that redirect light from port-to-port sequentially in only one direction. In advanced optical communication systems, circulators are used for bi-directional transmissions, WDM networks, fiber amplifier systems, and for optical time domain reflectometer (OTDR) measurements. Corning's circulator features small package, high isolation over a wide wavelength range, low insertion loss, low PDL, and excellent stability.

Standards

RoHS	Free of hazardous substances according to RoHS2011/65/EU
Design and Test Criteria	Product is qualified to Telcordia GR-1209-CORE and GR-1221-CORE



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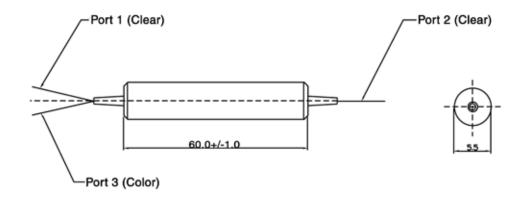


Specifications – Optical Circulator (Three-Port)

Parameters	Standard		Preium			
	Minimum	Typical	Maximum	Minimum	Typical	Maximum
Center Wavelength λc	1310 or 1550 nm		1310 or 1550 nm			
Isolation ($\lambda c \pm 20$ nm, 23°C, 2-1 or 3-2)	40 dB	50 dB		40 dB	50 dB	
Insertion Loss (λc ± 15 nm, 23°C)		0.8 dB			0.6 dB	
Insertion Loss (Ic ± 20 nm, 0-70°C, All SOP)			1.0 dB			0.8 dB
WDL			0.20 dB			0.20 dB
Directivity	50 dB			50 dB		
PDL			0.20 dB			0.15 dB
Return Loss	50 dB			50 dB		
Power Handling	500 mW		500 mW			
Operating Temperature	0°C to +70°C		0°C to +70°C			
Storage Temperature	-40°C to +85°C		-40°C to +85°C			
Tensile Load	5N		5N			

Shipping Package	
Packaging Dimensions	Pigtail Length
(Φ) 5.5 mm x (L) 60.0 mm	1 m (Standard)

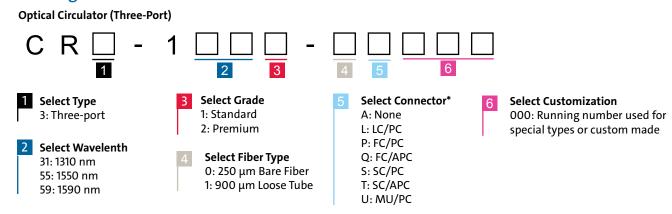
Three-Port Circulator



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Ordering Information



These part numbers are specific to Corning Optical Communications OEM Solutions Business Unit. Please contact OEM sales at +1-408-736-6900 or oemsales@corning.com and visit www.corning.com/opcomm/oem for sales support.



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA 800-743-2675 • FAX: 828-325-5060 • International: +1-408-736-6900 • www.corning.com/opcomm/oem • Email: oemsales@corning.com
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