

RAMAN AMPLIFIER
COMPONENTS

RAMAN 14XX PUMP COUPLER/ISOLATOR

DiCon's Raman 14xx Pump Coupler/Isolator integrates a 14xx Pump Coupler with a single stage or dual stage isolator for use in Raman or erbium high power fiber amplifiers. Raman 14xx Pump Coupler/Isolator hybrids are able to withstand continuous power levels in excess of 2.0 Watts while offering the lower losses and reduced integration costs of a hybrid component.



FEATURES

- High power capabilities to 2.0 Watts
- Demonstrated long term, high power reliability
- Tested to Telcordia GR-1221

APPLICATIONS

Raman 14xx Pump Coupler/Isolators are designed to couple the power from high power 14xx pump laser modules onto a transmission fiber while at same time isolating unwanted reflected signals originating from within the amplifier. Raman 14xx Pump Coupler/Isolators are hybrid components which eliminate the need to splice together separate pump couplers and isolators within a gain module.



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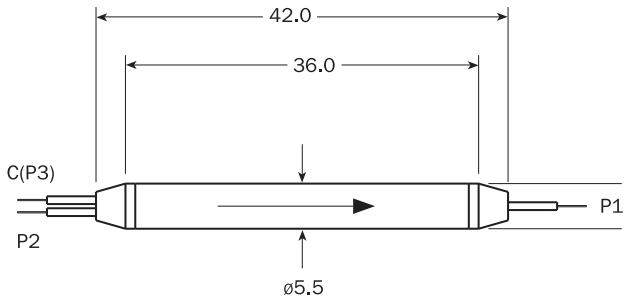
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SPECIFICATIONS¹

Parameter	Single Stage	Dual Stage
Power isolation; 23°C	27 dB min.	50 dB min.
Power isolation; Top	22 dB min.	40 dB min.
Pump passband	1410.0 - 149.0 nm	
Pump isolation C - P2	12 dB min.	
Insertion loss C - P1	1.0 dB max.	
Insertion loss C - P2	0.6 dB max.	
Ripple C - P1	0.2 dB max.	
Ripple C - P2	0.15 dB max.	
Directivity	55 dB min	
Back-reflection	-50 dB max.	
PDL C - P1	0.1 dB min., 0.15 dB max.	
PDL C - P2	0.1 dB max.	
PMD	0.1 ps max.	
Optical power	2.0 W max.	
Fiber type	9/125 Corning SMF-28	
Operating temperature	0°C to +65°C	
Storage temperature	-40°C to +85°C	

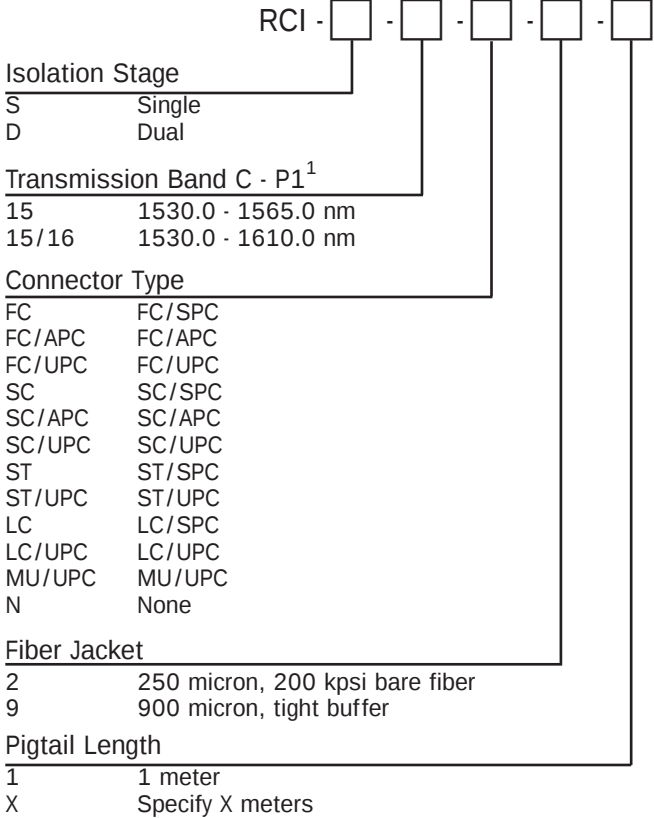
1. All specifications referenced without connectors.

HOUSING DIMENSIONS¹



Units: mm
1. Optional 38 mm housing lengths by request.

ORDERING INFORMATION



1. All wavelengths referenced to vacuum.