



Raman Pump Combiner (PCOM)



Overview:

Raman amplifier uses fiber non-linear Raman scattering to amplify the optical signal. In theory, it can amplify any wavelength signals by using appropriate pump, which is ideal replacement to expand the EDFA small gain range. Raman amplifier needs to combine multiple pumps with different wavelengths to increase the amplifier gain range and output power. The Raman pump combiner could combine the pumps with very low loss.

LightComm's Raman Pump Combiner is designed for combining the multiple pumps with different wavelengths.

Features:

- * Low insertion loss
- * Low PDL
- * High stability and reliability

Applications:

- * Raman amplifiers
- * EDFA

Specification:

Channel Quantity Parameter	2		3 ~ 4		5 ~ 8	
Operating Wavelength (nm)	Upon customer request					
Wavelength space	>5 nm, equal channel space between wavelengths					
Grade	P	A	P	A	P	A
Insertion loss (dB)	<0.3	<0.45	<0.6	<0.9	<1.0	<1.35
-0.5dB operating bandwidth	35% channel space					
Isolation (dB)	>15					
Directivity (dB)	>55					
Operating temperature (°C)	-40°C ~ +85					

*Other specifications can be made on customer request.

Package Information:

Configuration	1×2 or 2×2		1×N (N>2)
Fiber lead length	1 meter, others on request		
Fiber type	250 μm bare fiber	900 μm loose tube	900 μm/2mm/3mm loose tube
Dimensions (φ × L)	φ 3.0mm × 54mm	φ 3.0mm × 70mm	100mm × 30mm × 10mm or 125mm × 96mm × 16mm

*Other package dimensions can be made on customer request.

Ordering Information:

XXX-X-XXX-XXXX-XX/XX-X-X-XX/XXX-XX*XX

