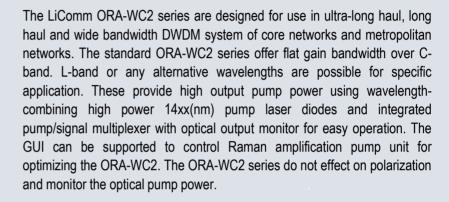
Distributed Raman Amplifier

Raman Module ORA-WC2-Series



Features

- ■All Self Control AGC
- Support Self Learning Mode for strange transmission fiber
- Support 3types of transmission fibers (SMF-28, Leaf, Truewave)
- ■Compact Size
- ■Ultra Wide Input Dynamic Range
- ■Variable Gain and Gain Tilt Control
- Integrated pump/signal multiplexer
- ■Low effective noise figure
- ■Incorporate polarization
- Optical pump power monitor
- User friendly controlled interface

Applications

- Ultra-long haul DWDM systems
- Long haul systems
- ■10 Gb/s & 40 Gb/s transmission systems
- ■High channel count systems
- •Increased length of spans between signal regeneration
- ■Remote amplifier pumping

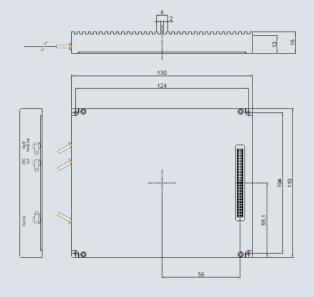












Distributed Raman Amplifier

Raman Module

Optical Characteristics

Parameter	Symbol	ORA-WC2-05AG	ORA-WL4-05AG	Unit
Signal wavelength range	λ	1528 ~ 1563	1528 ~ 1563	nm
Pump output power	P _{OUT}	50	00	mW
Number of pumps	P _N	2	2	ea
Gain flatness	ΔG	1.2		dB
Insertion loss	L	<1.2		dB
Pump degree of polarization	PDP	<7		%
Polarization dependent loss	PDL	<0.2		dB
Raman gain in SMF28	G _S	10		dB
Raman gain in LEAF ⁽¹⁾	G_A	12		dB
Raman gain in TW-RS ⁽²⁾ G _T 14		dB		
Effective noise figure in SMF28 N		<-0.7		dB
Effective noise figure in LEAF	Effective noise figure in LEAF NF _A <-1.2		1.2	dB
Effective noise figure in TW-RS	NF _T	<-1.2		dB

⁽¹⁾ LEAF fiber (2) True wave reduced slope

Electric & Environmental Characteristics

Parameter	Typical Value		
Power supply voltage	DC+5.0 V		
Interface	RS232		
Operating temperature	0 ~ 50 °C		
Storage temperature	- 40 ~ 85 °C		
Storage humidity	10 ~ 85 % R.H		
Power consumption*	15 W		

^{*}Pump output power = 1000 mW, at 25 °C

Ordering Information (ORA-WC4-05AG-B)

0	R	A - W	С	2	- 05	AG -	В
	R: Raman	T: TDM C: CATV W: DWDM	C: C-band		500mW Output Power	CP Pump APC AG: Self AGC	B: Backward Pumping Direction F: Forward Pumping Direction

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