

Features

- * Flattened Raman gain performance
- * High Raman pump power
- * Low effective noise figure
- * Front panel LCD display and status LED indicators for quick access of unit's status
- * RS-232 and Ethernet interface for local and remote supervision
- * Redundant dual power supply

Applications

- * 10Gb/s and 40Gb/s transmission system
- * Long-haul DWDM telecommunication system
- * High channel count system
- * Increase regenerator spacing

Description

GIP Technology C-band Raman Pump Unit for Telecom Application (TLM-CRPU-00-00-U) is specifically designed for distributed Raman application, using the entire transmission fiber as a gain medium, can achieve to improve the OSNR and other system performance greatly.

These series incorporate excellent pump power combiner and pump/signal multiplexer to produce highest Raman gain in the most



conversion efficiency. These series are suitable used in ultra-long haul and wide bandwidth DWDM systems of core network and Metropolitan network.

The TLM-CRPU-00-00-U is offered as C-band version in the counter-propagating configuration.

The compact stand-alone type, it not only can be embedded in the EIA 19 and 23-inch rack-mounted chassis, but also can be placed on the desk.

In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces (RS232 and SNMP).



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Specifications

Optical Information		Unit	Description	
Operating wavelength		nm	1528 ~ 1563	
Pumping configuration ^{*1}			Backward	
On-off gain ^{*2,3}	Min.	dB	13	18
Total output pump power	Min.	mW	620	700
Gain flatness	Max.	dB	± 1.0	
Effective noise figure ^{*2}	Max.	dB	0	
Polarization mode dispersion	Max.	ps	0.2	
Insertion loss over C band	Max.	dB	0.6	
Return loss	Min.	dB	45	
Connector			SC or FC	
Electrical Information				
Operating voltage		Volt	-48VDC or 100~240 VAC	
Pump LD ON/OFF switch			Key type	
Control interface			RS232 & SNMP	
Power consumption	Typ.	W	40	60
Environmental Information				
Operating temperature		°C	0 ~ 40	
Storage temperature		°C	-20 ~ 80	
Relative humidity (non-condense)		%	5 ~ 85	
Outline Information				
Dimension		mm	19" and 23" 1-RU rack, or Bench-Top	

*1. Forward pumping on request

*2. Measured at 1550nm, Pin= -20dBm

*3. With 80km G.652 SMF