



L-Band RF Over Fibre ODU

1100 to 1650nm Receive

Flexible Mounting
Band on to pole or bolt
to wall

Compact &
Weatherproof
Housed in IP65 rated
weatherproof
enclosure



850-2450MHz
Extended L-band
operating frequency

Monitoring
Optical and RF levels
reported at receiver

RF Parameters			
Capacity	One RF over Fibre Optical Receive Unit		
Power Connector	1K - LEMO FGL1K.302.CLLK75Z	Cable mount LEMO 1K series 2 pin	
Input ports	50Ω N-type, 75Ω F-type.	DC power available, do not connect to power source.	
Fibre output connector	Senko IP-SC/APC		
Frequency	850MHz to 2450MHz		
Connector & impedances	50Ω N-type	75Ω F-type	
Input Return Loss (dB)	Typ.	18	16
	Min.	12	12
Gain flatness (dB)	±2.0 Across Band		
Output AGC flatness	±2.0 dB over full band	Tx Input -10 to -40 dBm	
OIP3 (dBm)	Typical 17 dBm Worst Case 14 dBm	Test condition: SRY-RX-L1-924, 0 dB optical link loss, -22 dBm tones at 2150 and 2152 MHz	
CNR (in any 36MHz) (dB)	Typical -50 dB Worst Case -45 dB	Test condition: SRY-RX-L1-924, 0 dB optical link loss, -10 dBm RF i/p power, -10 dBm RF o/p total power.	
NF (dB)	Typical 12dB Worst Case 15dB	Test condition: SRY-RX-L1-924, 0 dB optical link loss, -50 dBm RF i/p power, -10 dBm o/p power	
Group Delay variation (ns)	2 over full band	1 over any 36MHz	
SFDR (dB/Hz ^{2/3})	105 typ., 100 min	Test condition: SRY-RX-L1-924, 10 km fibre, -13 dBm tones at 2150 and 2152 MHz	
IMD3 (dBc)	-65 typ., -60 min.	Test condition: SRY-RX-L1-924, 10 km fibre, -13 dBm tones at 2150 and 2152 MHz	
RF Input Signal Range, total power (dBm)	-30 to -10	o/p range available under all i/p conditions	
Module input voltage (V DC)	12	Use with PSU SRY-12-916-0KXX	
DC consumption (W)	4	Max	
External PSU Redundancy	Dual redundant hot swap external units	Separate Unit	



RF Parameters		
Local Monitoring	Full remote monitoring, PSU voltage, RF amp current, temperature, laser power, RF modulation power, laser optical power	Contact ETL if remote monitoring and control is required.
MTBF	> 250,000 hours	
Optical Parameters		
Optical Wavelength (nm)	1100 to 1650	
Optical Power output (dBm)	0 to 4.5	
Optical Connectors	Senko IP-SC/APC	Single mode fibre
Control, Monitoring & Alarms		
Control Switch Position	1 2 3 4	AGC on/Gain fixed
Indicator Lights	Power Status Green Status Red	Module powered Module OK Internal monitoring alarm
Monitoring includes	Optical Input Power Status of amplifier stages Module temperature	Monitored in each module
AGC	Factory set	Once AGC level set, gain can be fixed
Environmental Conditions		
Operating Temperature (°C)	-20°C to +55°C	
Storage Temperature (°C)	-40°C to +85°C	
Location	Indoor or outdoor use to IP65	Mount out of direct sunlight
Humidity	TBA	Relative Humidity
Altitude	10,000 feet AMSL	Above Mean Sea Level
Physical Dimensions & Parameters		
Weight	TBD kg	
Dimensions	85mm high x 50mm deep x 165mm wide	Excluding mounting flanges and connectors
Front Panel Colour	RAL9003 – White (Semi-Matte)	

Physical Dimensions (mm)

