

**point2point**

**AC ANALOGUE 10MHZ-3GHZ FIBRE-OPTIC-LINK**



System Parameters (at 25°C unless otherwise noted)

	Standard	Optional
Bandwidth (-3dB)	<1MHz to >3GHz	Alternative bandwidths are available
Risetime (10-90%)	<200ps	
Jitter	<10ps rms (measured on a 500MHz sinewave)	
Simultaneous Dynamic Range @500MHz	>147dB in a 1Hz bandwidth	Refer to PPM Application Note AN014.
Transmitter Gain, Nominal	0dB	
Receiver Gain, Nominal	0dB	
Electrical Link Gain, Nominal	= 0dB – [2 x Optical Loss] Optical Loss due to fibre is 0.4dB/km Optical Loss due to connectors is 0.5dB per connector typical Refer to Application Note for a discussion on the gain calculation for the AC Analogue Fibre-Optic-Link systems.	
Gain Stability	Better than +/-0.25dB after 20 minutes warm up	
Receiver Gain Status LED	Green: Gain is > - 3dB Alternating Red/Green: Gain is between -3dB and -10dB Red: Gain is less than -10dB	
Passband Flatness	<+/-1dB (typical +/-0.5dB for 1MHz to 2.5GHz)	
Phase Flatness	<+/-20° (typical +/-5° for 1MHz to 2.5GHz)	
Noise Figure	<26dB @ 500MHz <30dB @ 3GHz	
Input P1dB	>0dBm	
Input IP3	>10dBm	
Absolute Maximum Input	>+15dBm, 5Vdc	
Input/Output Impedance, VSWR	50Ω, ≤2:1	
Operating Temperature	-10°C to +40°C	

Electrical Signal Connector	SMA female	
Optical Signal Connector	Angle Polish FC/APC Singlemode	
Data Channel		RS232 single channel 115kb/s. Other data formats and rates available.
Data Channel Optical Connector		ST Multimode 50/125
Supply Voltage	Refer to housing option	
Current Consumption	<250mA Tx, <150mA Rx	
Housing Options	Shielded Remote Module, Plug-In Module. Using a Converter Sleeve 75002 the Plug-In module can be supplied as a single Remote Module.	
Plug-In Case Suitability	PRK1, PRK2, PRK3	