

Specifications for AC coupled links

AC Coupled Links	G series	K series	P series	S series
Passband	40 Hz to 250 MHz	2 kHz to 1.35 GHz	1 MHz to 2 GHz	10 MHz to 3 GHz
Gain Flatness (typical)	±0.5 dB (100 Hz-250 MHz)	±0.5 dB (10 kHz-1.35 GHz)	±0.5 dB	±0.75 dB
Gain Flatness (max.)	±3 dB	±3 dB	±1.5 dB	±1.5 dB
Phase Flatness	> 100 Hz : ±20°	> 5 kHz : ±20°	±20° (typ. ±5° for 1 MHz to 1.5 GHz)	±20° (typ. ±5° for 1 MHz to 1.5 GHz)
Rise Time	<1.4 nS	<350 pS	<250 pS	<200 pS
Noise Figure (typical)	< 24 dB (22 dB) @ 100 MHz	< 25 dB (22 dB) @ 500 MHz	<25 dB (24 dB) @ 500 MHz < 30 dB @ 2 GHz	< 26 dB (24 dB) @ 500 MHz < 30 dB @ 3 GHz
Signal Latency (1 m Fibre)	10 nS			
Transmitter Input Impedance (VSWR)	50 Ω (<1.5:1)			
Receiver Output Impedance (VSWR)	50 Ω (<1.5:1)			
Input P1 dB	>0 dBm @ 100 MHz	>0 dBm @ 500 MHz	>0 dBm @ 500 MHz	>0 dBm @ 500 MHz
Input IP3	>10 dBm @ 100 MHz	>10 dBm @ 500 MHz	>10 dBm @ 500 MHz	>10 dBm @ 500 MHz
Signal Inversion	Inverting			
Operating Temperature (NOTE: Specifications quoted at 25°)	-10 to +40 °C			
Optical Path Length	<1 m to ~4 km			
Optical Budget	-3 dB will turn status LED red/green on RX module -10 dB will turn status LED red on RX module			
Electrical Connectors	SMA Female 50 Ω			
Optical Connectors	Singlemode: FC/APC Narrow Key			
Current Consumption @ 12 V	<250 mA for Transmitter Module, <150 mA for Receiver Module			
Front Panel Indication:				
Transmitter Module	Power supply status & transmitter active			
Receiver Module	Power supply status & received light level			

Specifications for DC coupled links

DC Coupled Links	2.5 MHz	20 MHz	40 MHz
Pass band	0 Hz to 2.5 MHz	0 Hz to 20 MHz	0 Hz to 40 MHz
Gain Flatness	±0.5 dB to 1 MHz	±0.25 dB to 2 MHz	±0.25 dB to 10 MHz
	±1 dB to 2 MHz	±1 dB to 15 MHz	±1 dB to 30 MHz
	±3 dB to 2.5 MHz	±3 dB to 20 MHz	±3 dB to 40 MHz
Phase flatness	< ±10 °		
Rise time	<135 ns	<20.5 ns	<10.3 ns
Output Noise (Full Band, all values are Vrms)			
For +/- 2 V output	0.3 mV (0.02 % FS)	0.8 mV (0.06 % FS)	0.7 mV (0.05 % FS)
For +/- 10 V output	1.5 mV (0.02 % FS)	N/A	N/A
Signal latency (1 m fibre)	350 ns	280 ns	210 ns
Transmitter input impedance	1 MΩ / 25 pF typ.		
Receiver output impedance	50 Ω @ 2 V standard		
	300 Ω @ +/- 10 V optional (2.5 Hz limited)		
Output DC offset (worst case)	0.3 % of FSD		
Non-linearity	0.1 % of FSD		0.06 % of FSD
Operating temperature (NOTE: Specifications quoted at 25°)	-20 to +60 °C		
Optical path length (single mode)	<1 m to 10 km		
Electrical Connectors	BNC 50 Ω		
Optical Connectors	Single mode FC/APC		
Current Consumption @ 12V: Tx	<240 mA	<240 mA	<210 mA
Current Consumption @ 12V: Rx	<350 mA	<315 mA	<280 mA
Front Panel Indication:			
Transmitter Module	Power supply status & ADC overflow		
Receiver Module	Power supply status & link lock status		