

Technical Specification for Waveshaper

Specification			Comply / Not comply	Ref. Page No.
Optical Ports	Port Configuration	1x4		
Filter Control	Operating Frequency Range	Atleast (1530 nm to 1565 nm)		
	Filter Bandwidth	0.08 nm – 42.7 nm		
	Filter Shape	Arbitrary Attenuation and Arbitrary Phase		
	Frequency Setting Resolution	± 0.1 GHz (± 0.8 pm)		
	Frequency Setting Accuracy	± 2.5 GHz (± 20 pm)		
	Bandwidth Setting Resolution	± 0.1 GHz (± 0.8 pm)		
	Bandwidth Setting Accuracy	± 5 GHz (± 40 pm)		
	Bandwidth Setting Repeatability	± 2.5 GHz (± 20 pm)		
	Group Delay Control Range	± 25 ps		
	Attenuation Control Range	0 to 40 dB		
	Attenuation Setting Resolution	0.01 dB		
Attenuation Setting Accuracy	± 1 dB for 0.01 to 10 dB $\pm 10\%$ for 10.01 to 25 dB $\pm 15\%$ dB for 25.01 to 30 dB			
Settling Time	< 0.1 s			
Loss and Dispersion	Insertion Loss	≤ 5 dB		
	Insertion Loss Non-Uniformity	≤ 1 dB		
	Polarization Dependent Loss (PDL)	≤ 0.5 dB		
	Differential Group Delay (DGD)	~ 0.5 ps (± 0.1 ps)		
	Return Loss	≥ 25 dB		
Optical Power	Max Total Input Optical Power	+27 dBm		
	Max Optical Power per 50 GHz channel	+13 dBm		
Environment	Operating temperature	Bench-top: 15 to 35°C		
Electrical	Communications Interface	Ethernet (GbE), USB 2.0		
Mechanical	Connector Interface	FC/APC, FC/UPC		
Software	Necessary software to control the Programmable Optical Processor should be provided with the system			
Typical Applications	Should be possible to generate the required filter shape with both amplitude and phase. Should Support arbitrary user-generated channel and filter shapes			
Warranty	3 years			

(Note: It is mandatory for the bidders to provide the compliance statement (comply/not comply) for the above points with document proof as required)

Note: If the compliance statement (comply/Not comply) is not furnished for the evaluation. Bidders will be disqualified.