

Preliminary



- Single-pass & high-efficiency
- Compact & robust
- Optional SHG/SFG dual outputs

Reference Specification sheet

Optics (General)	unit	Specification			Note
Mixer Type		Sum Frequency Generation (SFG)			
Mixer Pigtailling Type		2x0			
1 st /2 nd Input Wavelength	nm	1064/1560			[1]
Output Wavelength	nm	632			
1 st /2 nd Input Fiber, Connector		PM980, None & PM1550, None			
Output Fiber, Connector		None			
Specified pump power	W	7+7			
Pump condition		CW, Single longitudinal mode			[2]
Optics (output)	unit	Minimum	Typical	Maximum	Note
Output power @ specified pump	W	3	3.2		
Beam quality, M ²			1.1	1.2	
Diameter of collimated output beam	mm	0.9	1	1.1	
Waist location (from the output window)	mm	-300	0	300	
Output beam (TEM ₀₀) ellipticity	%		5	10	
Residual IR/output power rejection ratio	dB	40	45		
Output polarization state		linear @ vertical axis			
Output PER	dB	20	25		
Back reflection of IR wavelength	dB		-45	-42	
Output beam height	mm	18.4	18.9	19.4	
Output beam angle	mrad	-7.5	0	7.5	
Mechanics	unit	Specification			Note
Housing dimension (L*W*H)	mm	150x100x35			
Electrics	unit	Minimum	Typical	Maximum	Note
Electrical connector		Hiroschi HR 10G-10P(73)			
Thermoelectric cooler		3.2V, 4A maximum, Qc = 6.9 W			
NTC Thermistor resistance@25°C	kΩ	10			
Thermistor B vale (B25/85)	K	3478			
PD response	V/W	0.36	0.4	0.44	
PD response linearity	%		2	4	[3]
Environment	unit	Minimum	Typical	Maximum	Note
Storage temperature (no humidity)	°C	-20	-	70	
Operating temperature range	°C	10	25	35	
Operating relative humidity (non condensing)	%RH	0	-	85	
Vibration / Shock		Refer to ISTA-2A			
Restriction of hazardous substances directive (RoHs)		Declaration of Conformity to 2011/65/EG			

[1] Different wavelength possible upon request

[2] Efficiency will be different for multimode laser

[3] Defined by the range from 20% to full power

- Mechanical drawing

