



Harmonic Generator for Mira 900 and Mira HP

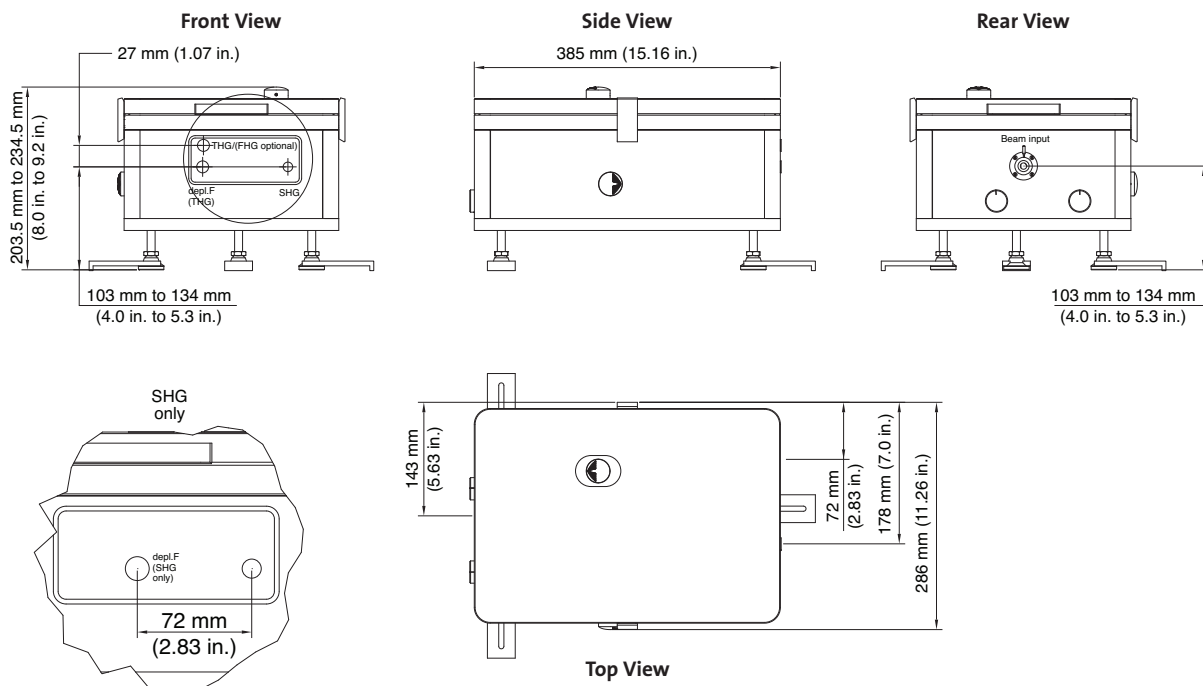
Second-, Third-, and Fourth-Harmonic Accessory for Ti:S Oscillators



Features

- Magnetically indexed crystals simplifies SHG/THG/FHG conversion
- Walk-off compensator maintains good beam circularity
- Delay compensator for simple in-line THG generation
- Easily upgradable
- Compact footprint
- Autotracker option for SHG and THG. Provides automatic phase matching optimization as input wavelength is changed.

Mechanical Specifications



Superior Reliability & Performance

Harmonic Generator for Mira 900 and Mira HP

Second-, Third-, and Fourth-Harmonic Accessory for Ti:S Oscillators

Specifications

800 nm Input Wavelength	High Efficiency SHG (SHG only)	Standard SHG	THG (incl. Standard SHG)	FHG-1 (SHG of SHG) (incl. Standard SHG)	FHG-2 (mixing fundamental & THG)(incl. SHG, THG, & FHG-1)
Conversion Efficiency/Power for input wavelength of 800 nm					
Mira HP-F, 18W pump	40%/1.4W	25%/875 mW	9%/315 mW	Call Factory	Call Factory
Mira HP-P, 18W pump	16%/480 mW	15%/450 mW	6%/180 mW	Call Factory	Call Factory
Mira 900-F, 10W pump	40%/560 mW	20%/280 mW	10%/140 mW	4%/45 ² mW	1.15%/1.6 mW
Mira 900-P, 10W pump	15%/210 mW	10%/140 mW	4%/56 mW	Call Factory	Call Factory
Mira 900-F, 5W pump	Call Factory	4%/30 mW	2%/13 mW	Call Factory	Call Factory
Mira 900-P, 5W pump	Call Factory	2%/15 mW	0.8%/5 mW	Call Factory	Call Factory
Input Wavelength Range (nm)	680 to 1080	680 to 1080	680 to 1080	840 to 920	760 to 840
Output Wavelength Range (nm)	340 to 540	340 to 540	227 to 360 ¹	210 to 230	190 to 210
Dimensions (L x W x H)		385 x 286 x 221 mm (15.2 x 11.3 x 8.7 in.)			580 x 410 x 221 mm (22.9 x 16.2 x 8.7 in.)

¹ Requires optics change.

² Specified at 880 nm input wavelength.

Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all Harmonic Generators. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



www.Coherent.com

Coherent, Inc.
 5100 Patrick Henry Drive
 Santa Clara, CA 95054
 phone (800) 527-3786
 (408) 764-4983
 fax (408) 764-4646
 e-mail tech.sales@Coherent.com

Benelux +31 (30) 280 6060
 China +86 (10) 6280 0209
 France +33 (0)1 6985 5145
 Germany +49 (6071) 968 333
 Italy +39 (02) 34 530 214
 Japan +81 (3) 5635 8700
 Korea +82 (2) 460 7900
 UK +44 (1353) 658 833