

Standard Concave Gratings for Constant Deviation Monochromators

Code number	Wavelength range		Nominal blaze wavelength (*1)	Relative efficiency minimum (*2)	Groove density	Entrance path length	Other mounting parameters			Dimensions
	λ_1	λ_2	λ_B (nm)	(%)	N (grooves/mm)	r (mm)	r' (mm)	2K (deg)	m	W×H×T (mm)
M1200-08	200	800	250	55	1200	99.9	93.9	61.6	-1	32×32×7.0
M1200-07	200	800	270	63	1200	99.9	93.9	61.6	-1	φ50×7.0
M1200-09	200	800	330	60	1200	99.9	93.9	61.6	-1	32×32×7.0
M1200-01	200	800	330	65	1200	99.9	93.9	61.6	-1	φ50×7.0
M0600-01	400	1400	600	65	600	99.9	93.9	61.6	-1	φ50×7.0
M1198-03	190	800	250	55	1198	105.0	100.0	-34.7	1	42.4×42.4×7.7
M1198-01	200	800	300	65	1198	105.0	100.0	-34.7	1	42.4×42.4×7.7
M1198-02	350	850	460	65	1198	105.0	100.0	-34.7	1	42.4×42.4×7.7
M0900-01	200	1000	250	60	900	120.0	150.0	53.0	1	20×20×5.0
M1200-02	200	450	300	50	1200	122.6	122.6	28.8	-1	40×40×10.0
M1200-03	200	800	350	50	1200	122.6	122.6	28.8	-1	40×40×10.0
M0600-02	700	2000	920	60	600	122.6	122.6	28.8	-1	40×40×10.0
M1300-01	250	650	350	60	1300	170.3	170.3	28.0	-1	64×64×8.7
M1300-02	250	650	400	50	1300	170.3	170.3	28.0	-1	64×64×8.7
M1200-04	190	800	250	50	1200	200.0	187.9	61.6	-1	45×40×7.0
M0600-03	400	1000	600	65	600	200.5	181.1	61.6	-1	45×40×7.0
M1200-05	300	800	450	50	1200	203.7	203.7	70.0	-1	64×64×10.0
M0900-02	200	1100	200	60	900	249.9	249.9	50.0	1	50×50×8.9
M0900-03	200	1100	220	60	900	249.9	249.9	50.0	1	35×35×8.9
M1200-06	250	350	275	65	1200	252.4	252.4	15.0	1	50×50×11.0
M0900-04	200	1000	250	45	900	257.6	244.6	53.8	1	54×54×8.9

*1: Nominal blaze wavelength is the wavelength of the maximum diffraction efficiency (target) with the design mounting. No one to guarantee the wavelength of the maximum diffraction efficiency. Blazing is performed with an ion-beam etching technology.
 *2: Relative efficiency minimum is at the nominal blaze wavelength.

Concave Grating Mounting for Constant Deviation Monochromator

