MQ110-A3-UV

FEATURES

- UV High laser power
- Linear polarization
- Large aperture
- High diffraction efficiency

SPECIFICATIONS (T=25°C)

PARAMETER	RATING	UNIT
Material-Acoustic mode-Velocity	Fused Silica-L - 5960	m/s
Optical Wavelength range (AR coated) (λ)	*325-425*	nm
Carrier Frequency / Frequency shift	*+/-110*	MHz
Transmission	*≥95, nom 98*	%
Input / Output Polarization	*Linear Vertical*	
Active Aperture	*3 x 3*	mm²
Recommended beam diameter	*0.5-2.5*	mm
Rise/fall time (T_r)	*110*	ns/mm
Separation Angle (0-1) (Δθ)	*6.6 @355nm*	mrd
Static Extinction Ratio	>33	dB
*Diffraction Efficiency (η)	*≥ 85 @ 355 nm, ≥ 75 @ 405 nm*	%
Max optical power density	*10*	W/mm²
Input impedance	*50*	Ω
V.S.W.R.	*< 1.2:1*	
RF Power (P)	<4	W
Connector	*SMA female*	
Size	*47 x 60 x 53*	mm³
Weight	*Nom 100*	g
Packaging	*IN PRO 376*	
Operating Temperature (non condensing)	*+10 to +40*	°C
Storage Temperature (non condensing)	-20 to +50	°C
RoHS Compliance	*Yes*	
OPTION MQ110-B30A3-UV	Frequency range110+/15MHz, scan angle 1.8mrd @355nm, Efficiency *≥70%*	

**Diffraction efficiency is beam diameter and wavelength dependant.*

$$T_r = 0.66\frac{\phi}{V} \quad * \quad F_{-3dB} = \frac{0.48}{T_r} \quad * \quad \Delta\theta = \frac{\lambda F}{V} \quad * \quad \frac{P_1}{P_2} = \frac{\lambda_1}{\lambda_2}$$

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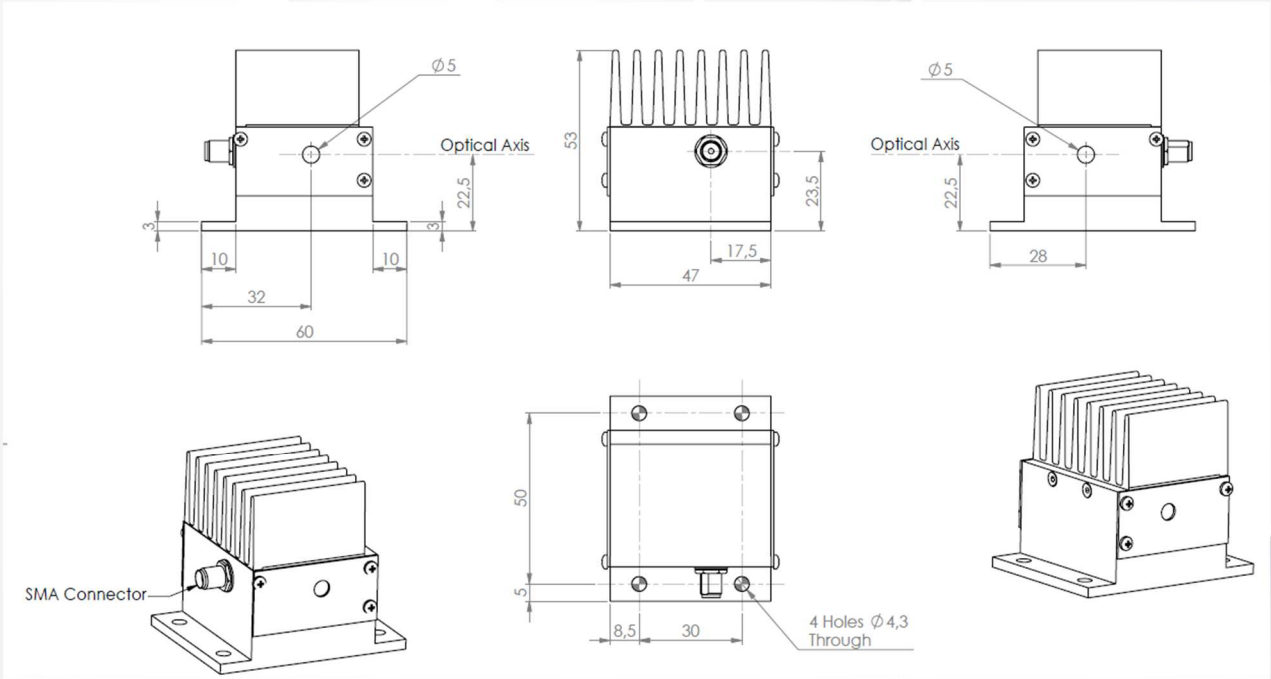
OUTLINE DRAWING, mm



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