

MQ200-B30A1,2-UV-HK – MQ200-A1,2-UV-HK

FEATURES

- UV High laser power
- Linear polarization
- Large aperture
- High diffraction efficiency
- Special design for higher thermal stability



SPECIFICATIONS (T=25°C)

PARAMETER	RATING	UNIT
Material-Acoustic mode-Velocity	<i>Fused Silica-L - 5960</i>	m/s
Optical Wavelength range (AR coated) (λ)	<i>325-425</i>	nm
Centre Carrier Frequency / Frequency shift (Fc)	<i>+/-200</i>	MHz
Transmission	<i>≥95, nom 98</i>	%
Input / Output Polarization	<i>Linear Vertical</i>	
Active Aperture	<i>1,2 x 2</i>	mm ²
Rise/fall time (Tr)	<i>110</i>	ns/mm
Separation Angle (0-1) ($\Delta\theta$)	<i>11,9 @Fc @355nm</i>	mrd
Static Extinction Ratio	<i>>33</i>	dB
Max optical power density	<i>Wavelength dependent / typ 10 W/mm² @355nm</i>	W/mm ²
Input impedance	<i>50</i>	Ω
V.S.W.R.	<i>< 1.2:1</i>	
RF Power (P)	<i>< 3 (nom 2.5)</i>	W
Connector	<i>SMA female</i>	
Size	<i>60.1 x 28.7 x 26.5</i>	mm ³
Weight	<i>Nom 80</i>	g
Packaging	<i>IN PRO 046</i>	
Operating Temperature (non condensing)	<i>+10 to +40</i>	°C
Storage Temperature (non condensing)	<i>-20 to +50</i>	°C
RoHS Compliance	<i>Yes</i>	

***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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VERSIONS

PARAMETER	MQ200-B30A1,2-UV-HK	MQ200-A1,2-UV-HK
Min rise/fall time (typ)	45 ns	
Analog amplitude modulation bandwidth (-3dB)	10 MHz	
Recommended beam diameter	[0,4 - 1mm] @328nm - [0,6 - 1mm] @355nm - [0,7 - 1mm] @405nm	
Frequency range (DF)	200+/-15MHz	-
Diffraction efficiency	>= 85% @Fc >= 75% over DF	>= 85% @Fc
Scan angle	1,8 mrd @355nm	-

OUTLINE DRAWING, IN PRO 046 (mm)

