

# MQ200-A1,5-244.300-Br

## MQ200-B30A1,5-244.300-Br

### Product Overview

These modulators have been specially designed for deep UV applications. They are made of fused Silica UV grade with Brewster incidence and can operate in the range of 244 to 300 nm. Applications can be amplitude modulation, pulse picking or fixed/variable frequency shifting.



### FEATURES

- High laser power
- Linear polarization
- High diffraction efficiency
- Brewster incidence for high transmission

### SPECIFICATIONS (T=25°C)

PARAMETER	RATING	UNIT
Material-Acoustic mode-Velocity	Fused Silica-L - 5960	m/s
Wavelength range	244-300	nm
Carrier Frequency / Frequency shift	+/-200	MHz
Transmission	Brewster incidence angle (Horizontal plane)	
Input / Output Polarization	Linear parallel / Linear parallel	
Bragg incidence angle	Vertical plane	
Active Aperture	1.5 x 2	mm <sup>2</sup>
Rise/fall time (T <sub>r</sub> )	110	ns/mm
Min rise/fall time	nom 55	ns
Separation angle(0-1)	≥8.2 mrad	
Static Extinction Ratio	≥30	dB
Diffraction efficiency	≥85	%
Input impedance	50	Ω
V.S.W.R.	< 1.2:1	
RF power	≤4W	
Connector	SMA female	
Size	59.1 x 33.6 x 42.4	mm <sup>3</sup>
Weight	Nom 100	g
Packaging	IN PRO 082	
Operating Temperature (non condensing)	+10 to +40	°C
Storage Temperature (non condensing)	-40 to +65	°C
RoHS Compliance	Yes	
<i>OPTION MQ200-B30A1,5-244.300-Br</i>	Frequency range 200+/-15 MHz, Efficiency typ > 75%	

# MQ200-A1,5-244.300-Br

# MQ200-B30A1,5-244.300-Br

## Additional data

Wavelength/nm	Beam diameter/mm	RF power/W	Nom Diffraction efficiency/%
213	0.4-1.2	2	85
235	0.4-1.2	3	85
313	0.6-1.2	4	80
	0.3-0.5	4	75
325	0.6-1.2	4	80

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

## OUTLINE DRAWING IN PRO 082, mm (UV)

