

MQ240-Ax-xx – MQ240-BxAX-xx

Product Overview

This modulator has been specially designed for high power and fast rise time application. They can be used as intensity/amplitude modulation as well as frequency shifters or low-resolution deflectors

FEATURES

- Fast rise time/Access time
- Linear polarization
- High diffraction efficiency



SPECIFICATIONS (T=25°C)

PARAMETER	RATING	UNIT
Material-Acoustic mode-Velocity	TeO ₂ -L - 4200	m/s
Optical wavelength range (AR coated)	325-425	nm
Carrier Frequency / Frequency shift	+/-240	MHz
Transmission	≥95, nom 98	%
Input / Output Polarization	Linear Vertical	
Rise/fall time (T _r)	110	ns/mm
Min Rise/fall time (with 80µm beam diameter)	9	ns
Static Extinction Ratio	>30	dB
*Diffraction efficiency	>80	%
Optical Power density	10	W/mm ²
Input impedance	50	Ω
V.S.W.R.	< 1.2:1	
RF power (P)	<2.2	W
Connector	SMA female	
Size	50.9 x 22.4 x 17.3	mm ³
Weight	Nom 50	g
Packaging	IN PRO 154	
Operating Temperature (non condensing)	+10 to +40	°C
Storage Temperature (non condensing)	-40 to +65	°C
RoHS Compliance	Yes	
Variable Frequency (on request) MQ240-B40A0.2-UV	Frequency range DF 240 +/- 20 MHz Scan angle 2.85 mrd @ 325 nm Diffraction efficiency > 70% over DF	

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

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OUTLINE DRAWING IN PRO 154, mm (UV)

