MCQ110 VIS AO Modulator/Shifter

High power 532 nm modulator, air cooling

• High power • Linear Polar • Large aperture

These modulators have been specially designed for applications for which TeO2 cannot be used. Their large aperture allows user to combine the laser beam without additional optics.
They cover the VIS range up to 650 nm. Suitable for DPSS 532 nm or AR+ lasers.

They can also be used as fixed frequency shifters @110 MHz, as well as variable frequency shifters or deflectors with a frequency range up to 110 +/- 15 MHz.

Specifications	MQC110-A2-VIS
Material-Acoustic mode	Quartz
Acoustic Velocity	V=5740 m/s
Optical Wavelength range	458-650 nm
Transmission	> 95 %
Optical Input / Output polarizations	Linear ⊥
Aperture	2 x 2 mm²
Carrier frequency / Frequency shift	110 MHz
Separation angle	10.2 mrd @532nm *(Scan angle over 30 MHz: 2.8 mrd @532nm)*
Diffraction efficiency (with TEM00 beam, $M^2 \leq 1.1$)	> 85 % @532 nm, @1.5 mm beam dia *(≥ 70% over 30 MHz)*
Rise time	115 ns /mm (min 50 ns – min beam diameter 0.5 mm)
Amplitude modulation bandwidth	> 8 MHz (-3 dB)
Static extinction ratio	> 1000/1
Max optical power density	> 100 W / mm²
Input impedance	Nom 50 Ω
V.S.W.R.	Nom < 1.5/1
RF Power	Typ 5 Watts
Connector	SMA
Heat Exchange	Conduction through baseplate
Size / Weight	(Lxlxh)
Operating Temperature	10 to 40 °C

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