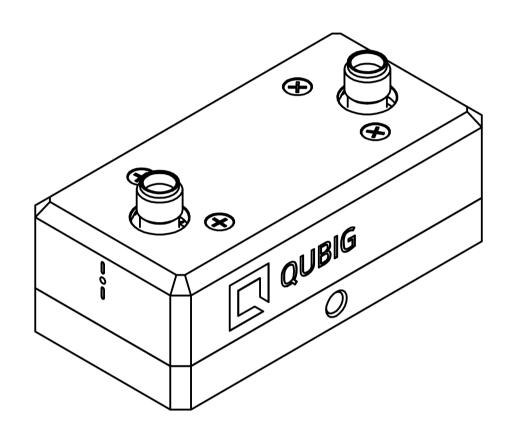


## **Test Data sheet**

## TWP10M1-VIS

Sample Data Sheet

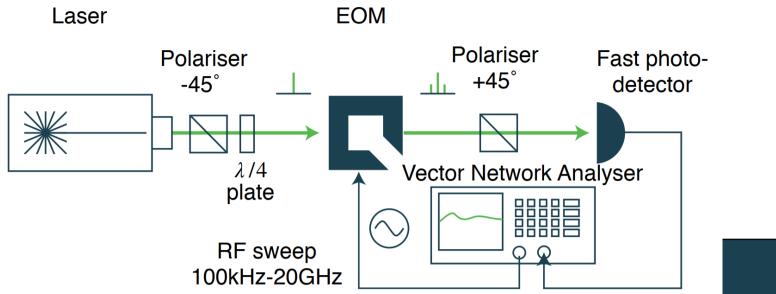
# Free-space traveling-wave broadband electro-optic phase modulator



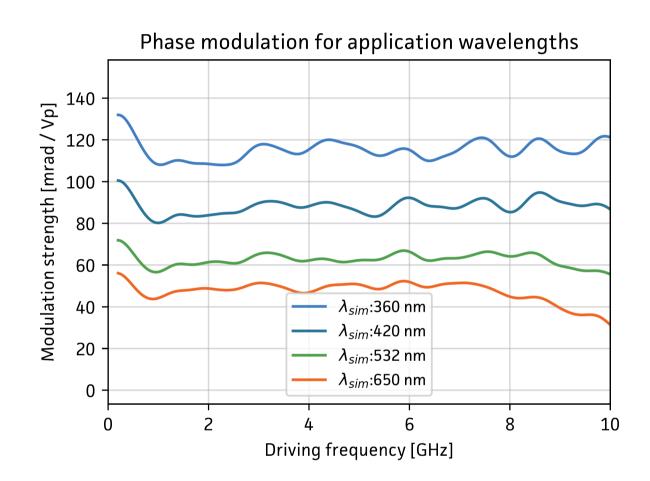
Property	Value	Unit
Modulation efficiency (420nm)	~ 88.0	mrad/Vp
Modulation bandwidth	~10	GHz
Max RF power <sup>1</sup>	40	dBm
Apperture	~ 1x1	mm <sup>2</sup>
Wavefront distortion (633nm)	<λ/6	nm
Maximum optical intensity (420nm)	0.5	W/mm <sup>2</sup>
AR coating (R<0.5%)	360-650	nm

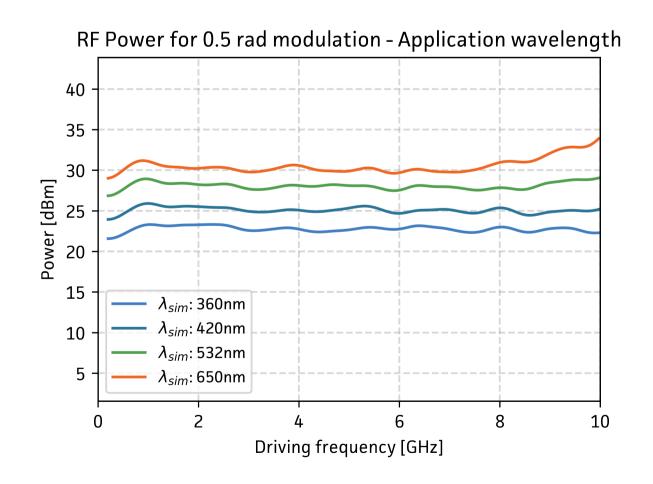
(1) use of a RF circulator is necessary. No damage with RFin < 10W, but use of a proper heatsink recommended

## Measured modulation



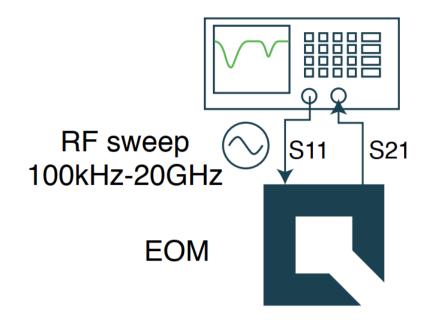
Test setup



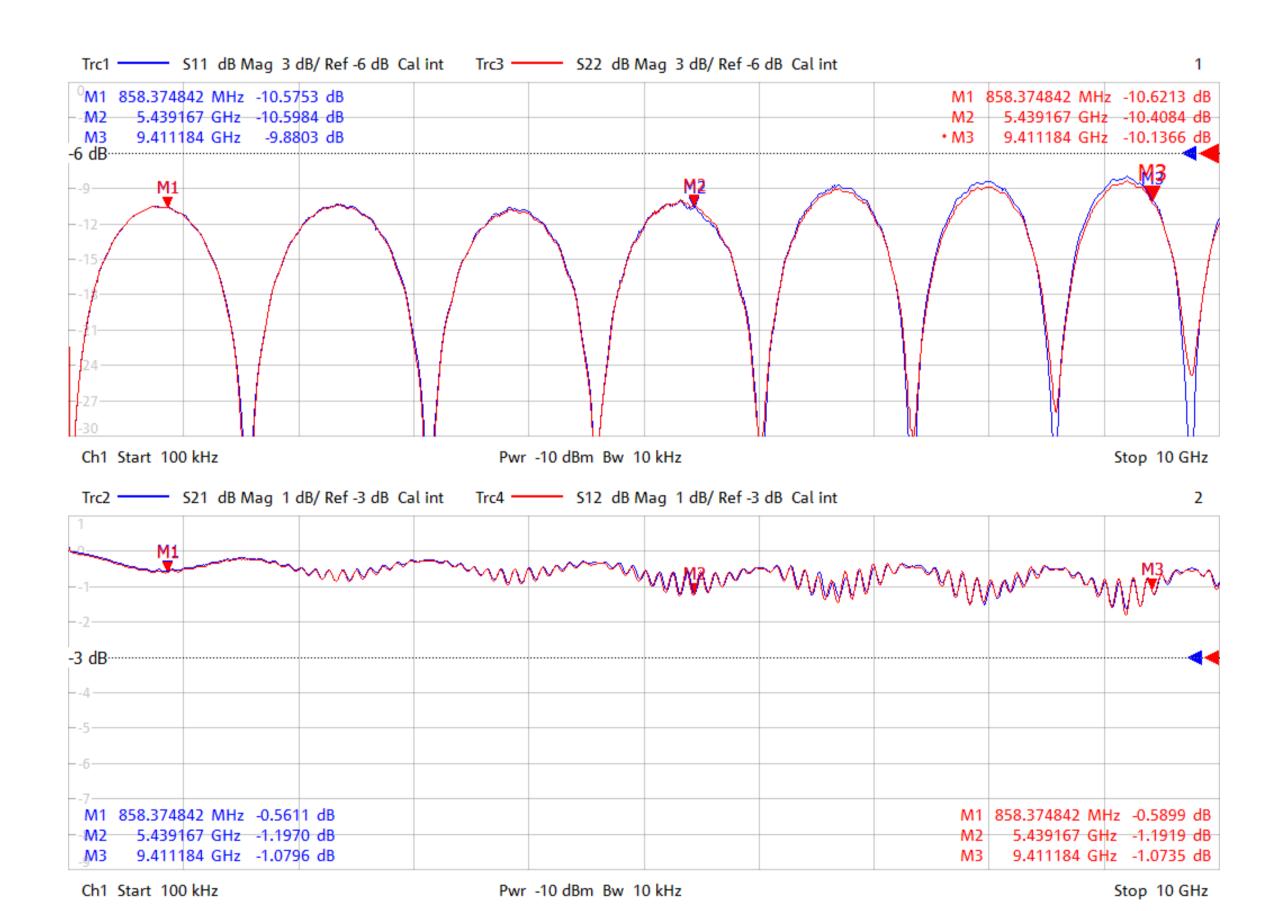


#### **S-Parameters**

#### Vector Network Analyser



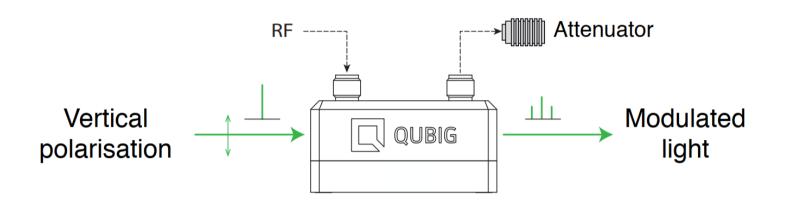
**Test setup** 



## **Handling instructions**

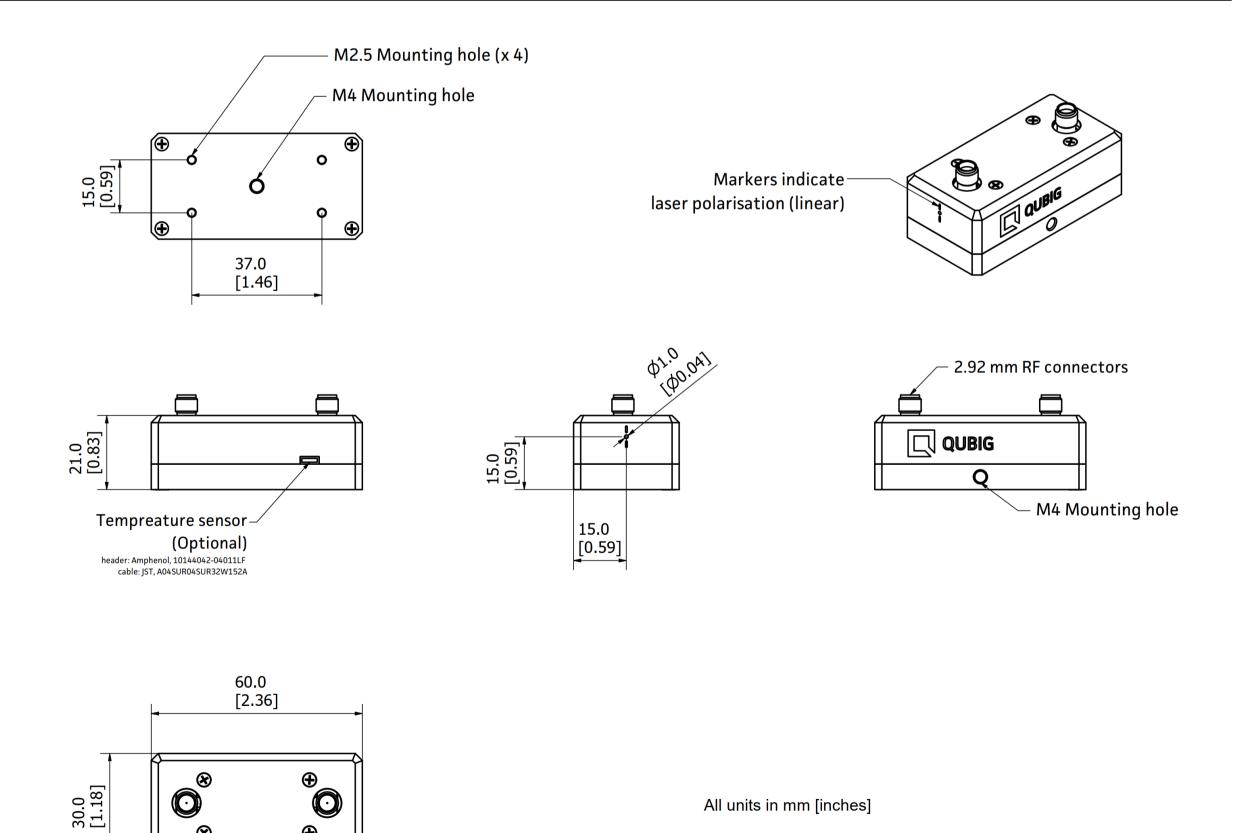
- Input laser polarisation must be aligned with respect to the white markers on the housing
- · Radio frequency signal must propagate in the same direction as the light beam.
- An RF-attenuator must be used at the RF-out port.
- Please handle device carefully. Avoid shock. Do not drop.
- · Slight angle adjustment can reduce unwanted residual amplitude modulation (RAM).

## **Operation configuration**



The use of a long coaxial cable between the EOM and the RF attenuator is recommended to avoid heating for high RF power.

## Package drawing



Tested by

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Tel: +49 89 2302 9101 Fax: +49 89 2302 9102 eMail: mail@qubig.com web: www.qubig.com

**Qubig GmbH** Balanstr. 57 81451 Munich Germany