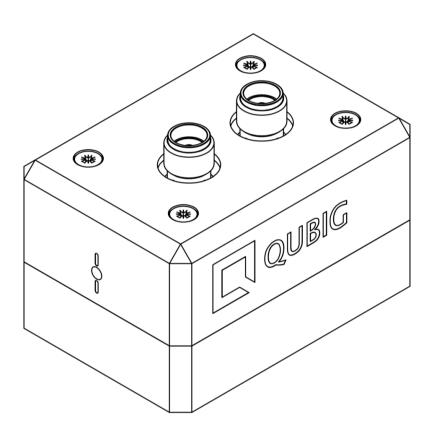


## **Test Data sheet**

## TWP10S1.2-UVIS

Sample Data Sheet

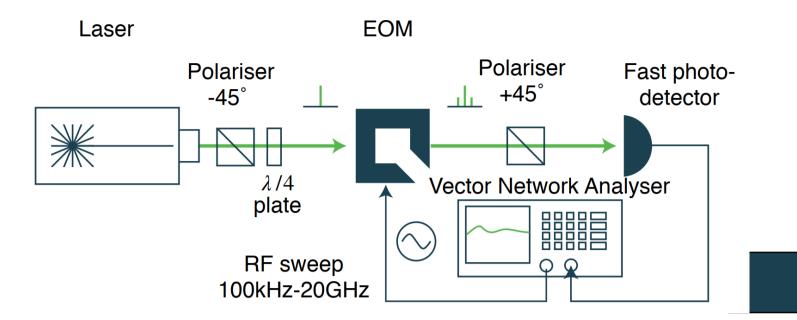
# Free-space traveling-wave broadband electro-optic phase modulator



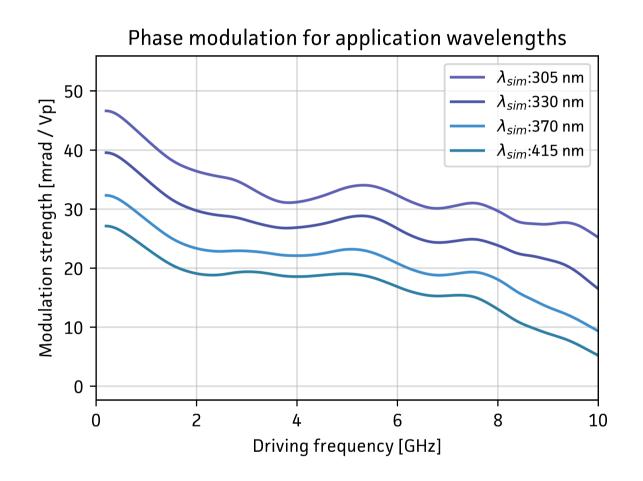
Property	Value	Unit
Modulation efficiency (370nm)	~ 22.0	mrad/Vp
Modulation bandwidth	~10	GHz
Max RF power <sup>1</sup>	40	dBm
Apperture	~ 1x1	mm <sup>2</sup>
Wavefront distortion (633nm)	<λ/4	nm
Maximum optical intensity (370nm)	0.5	W/mm <sup>2</sup>
AR coating (R<0.5%)	305-415	nm

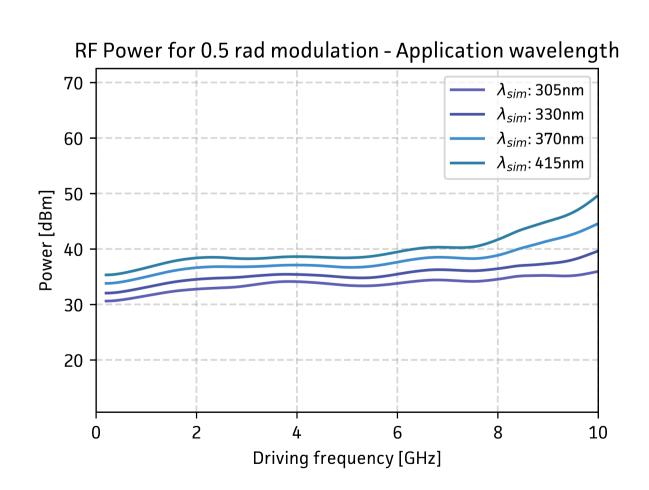
(1) use of a RF circulator is necessary. No damage with RFin < 10W, but use of a proper heatsink recommended

## Measured modulation



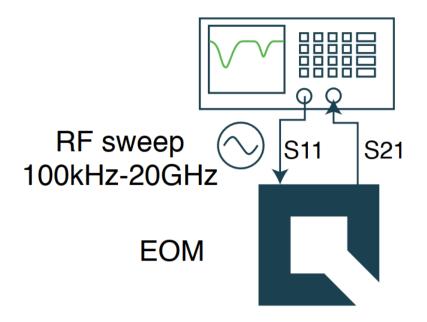
**Test setup** 



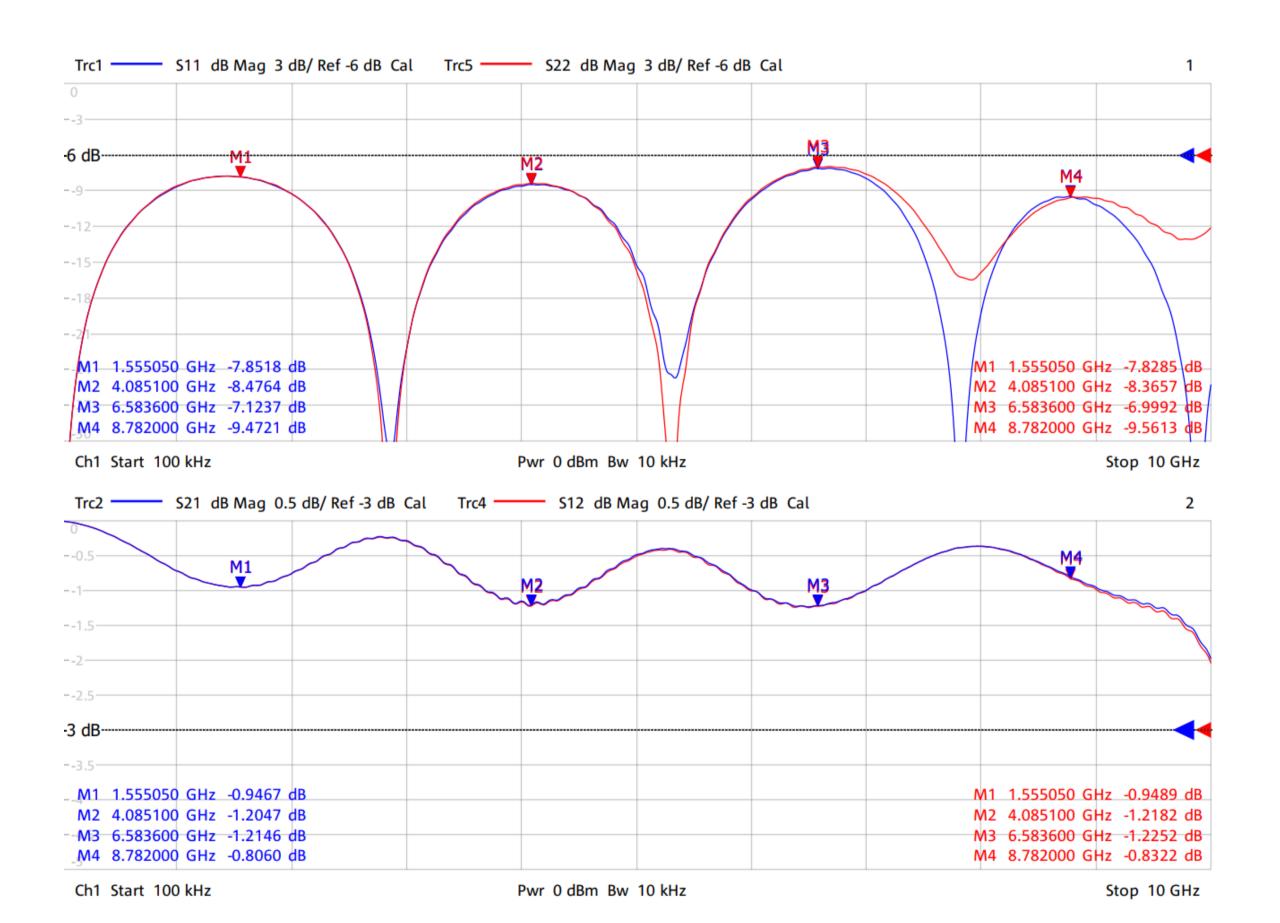


#### **S-Parameters**

## Vector Network Analyser



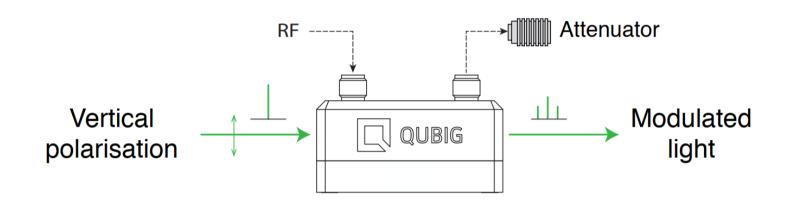
Test setup



## **Handling instructions**

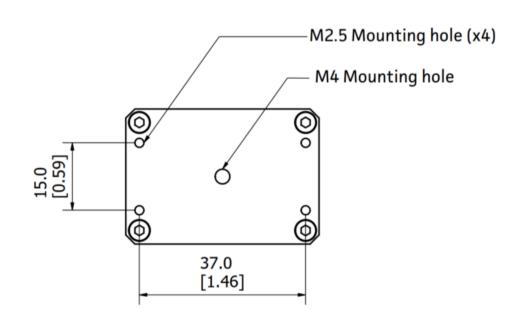
- · Input laser polarisation must be aligned with respect to the white markers on the housing
- · Radio frequency signal must propagate in the same direction as the light beam.
- An RF-attenuator must be used at the RF-out port.
- Please handle device carefully. Avoid shock. Do not drop.
- · Slight angle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

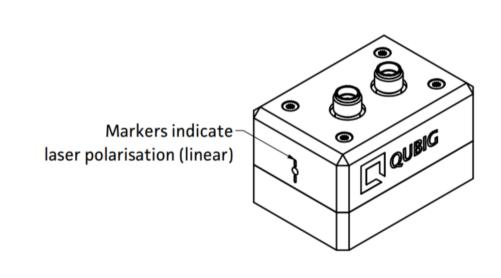
## **Operation configuration**

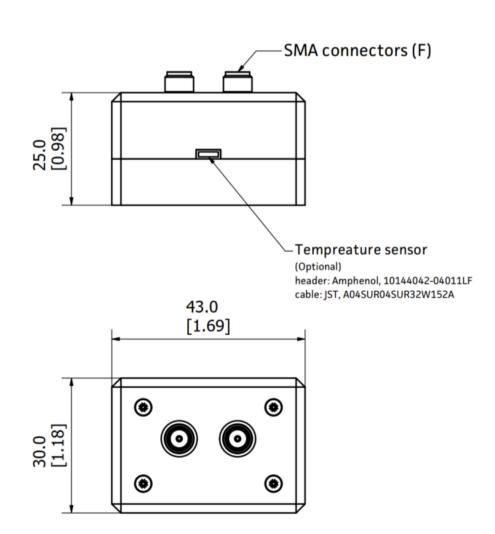


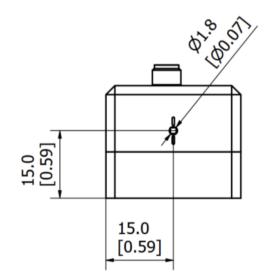
The use of a long coaxial cable between the EOM and the RF attenuator is recommended to avoid heating for high RF power.

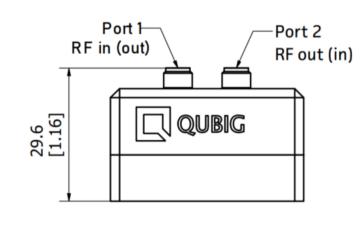
## **Package drawing**











All units in mm [inches]

Tested by

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