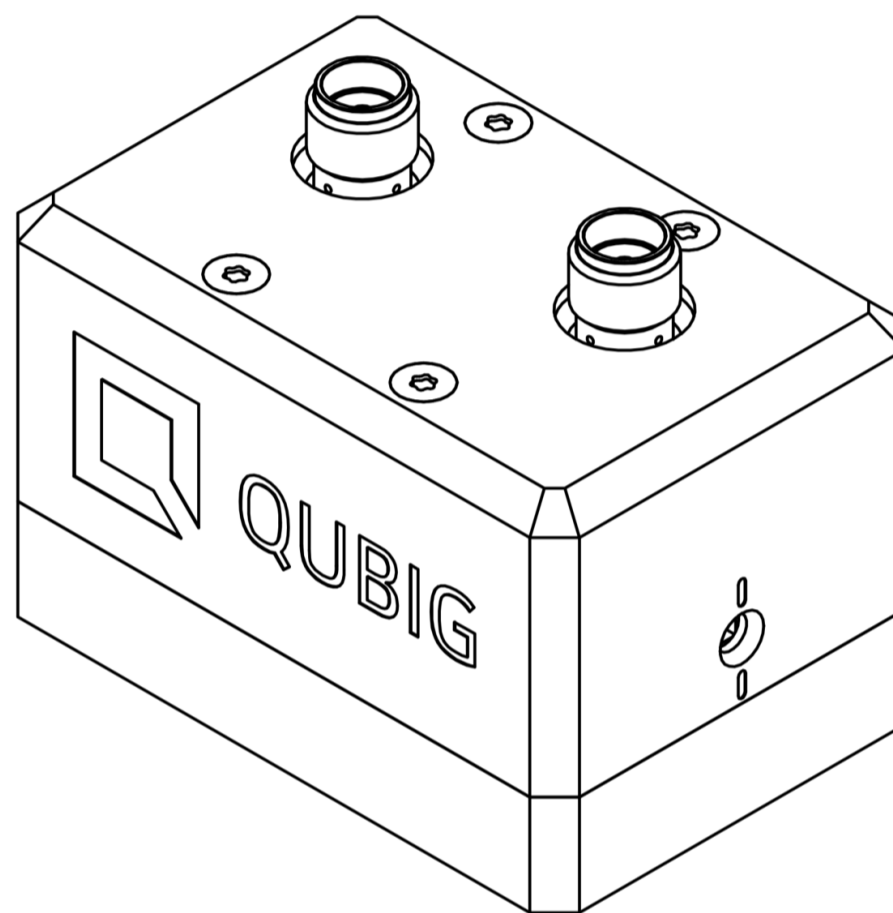


# Test Data sheet

TWP5M2-UVIS

Sample Data Sheet

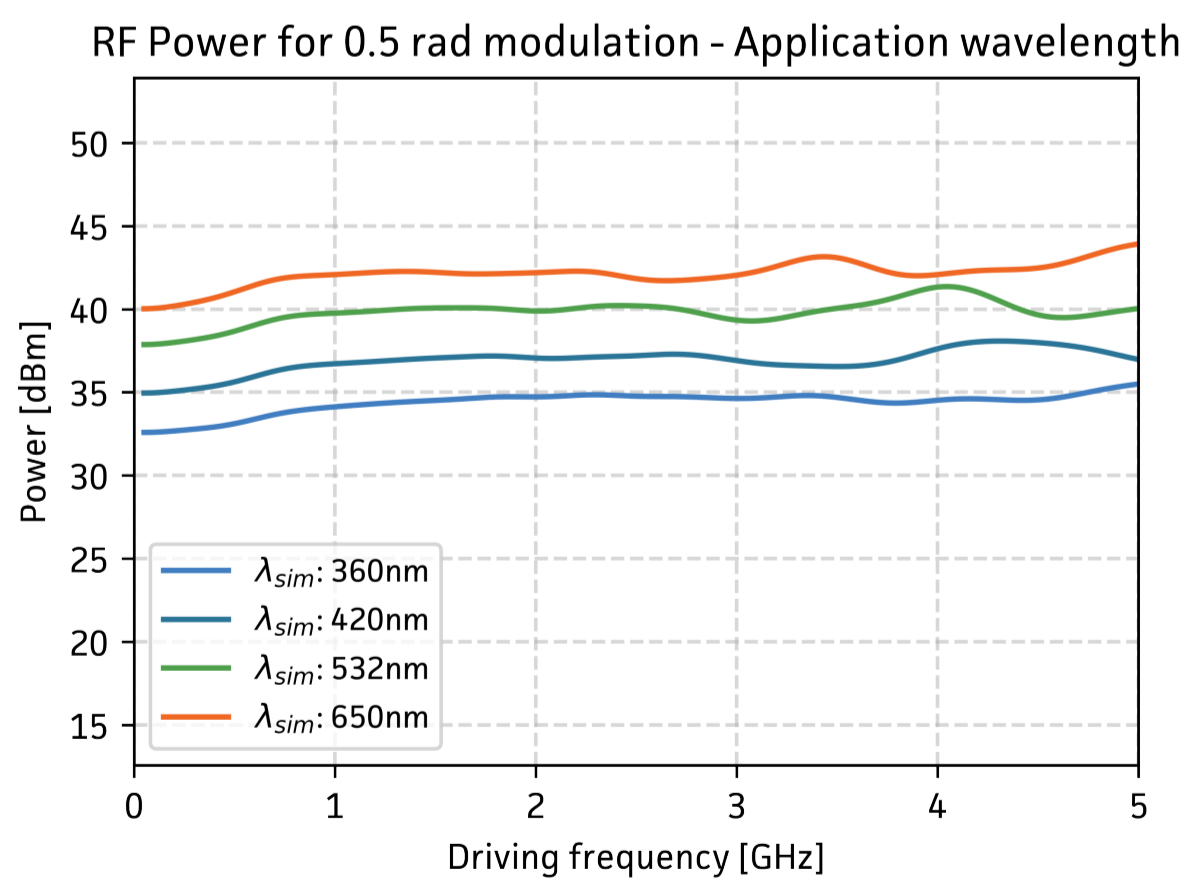
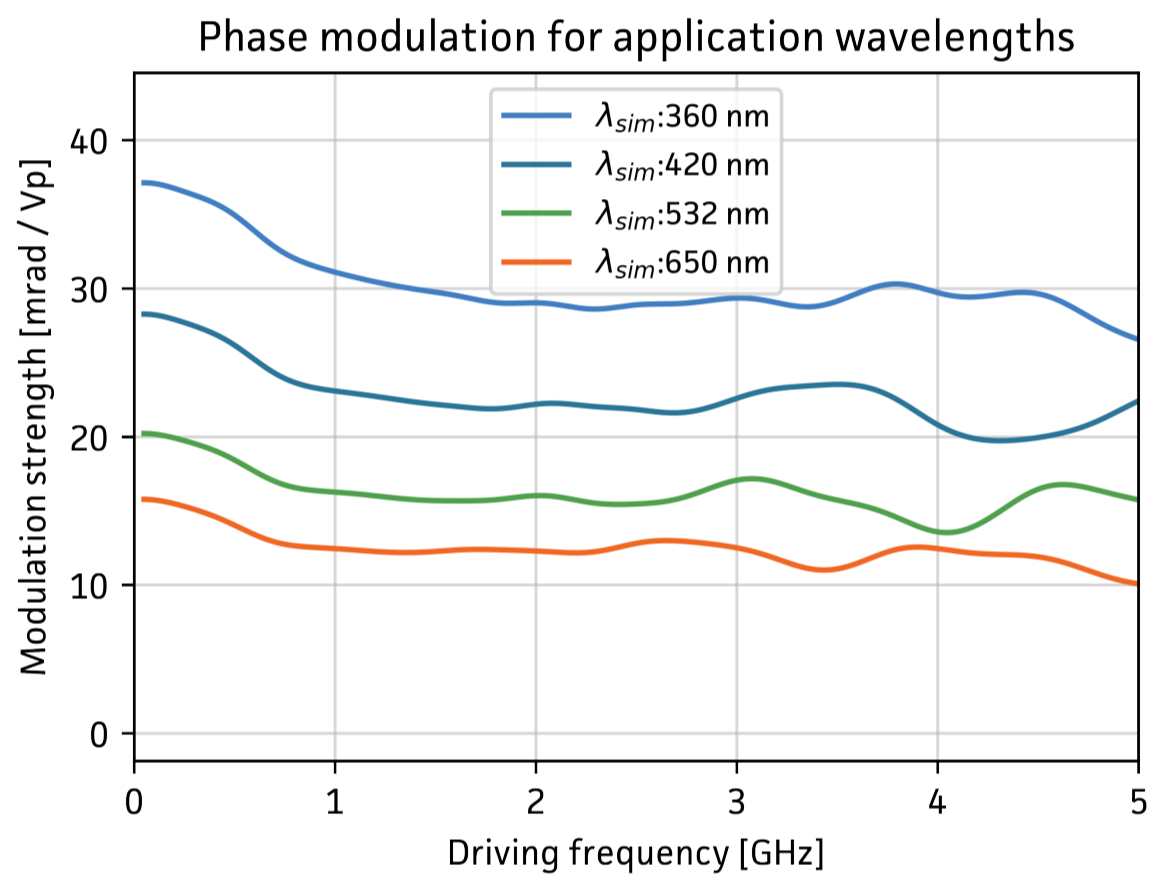
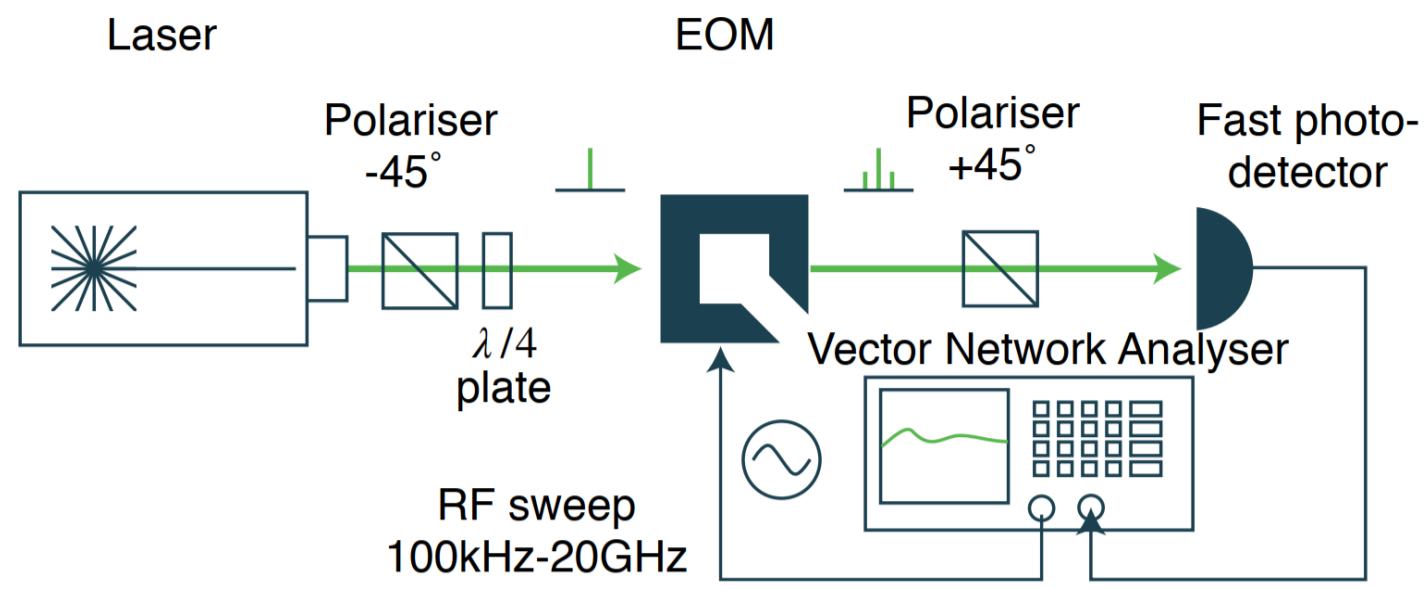
Free-space traveling-wave  
broadband electro-optic phase modulator



Property	Value	Unit
Modulation efficiency (420nm)	~ 22.0	mrad/Vp
Modulation bandwidth	~5	GHz
Max RF power <sup>1</sup>	40	dBm
Apperture	~ 2x2	mm <sup>2</sup>
Wavefront distortion (633nm)	<math>\lambda/6</math>	nm
Maximum optical intensity (420nm)	0.5	W/mm <sup>2</sup>
AR coating (R<0.5%)	360-650	nm

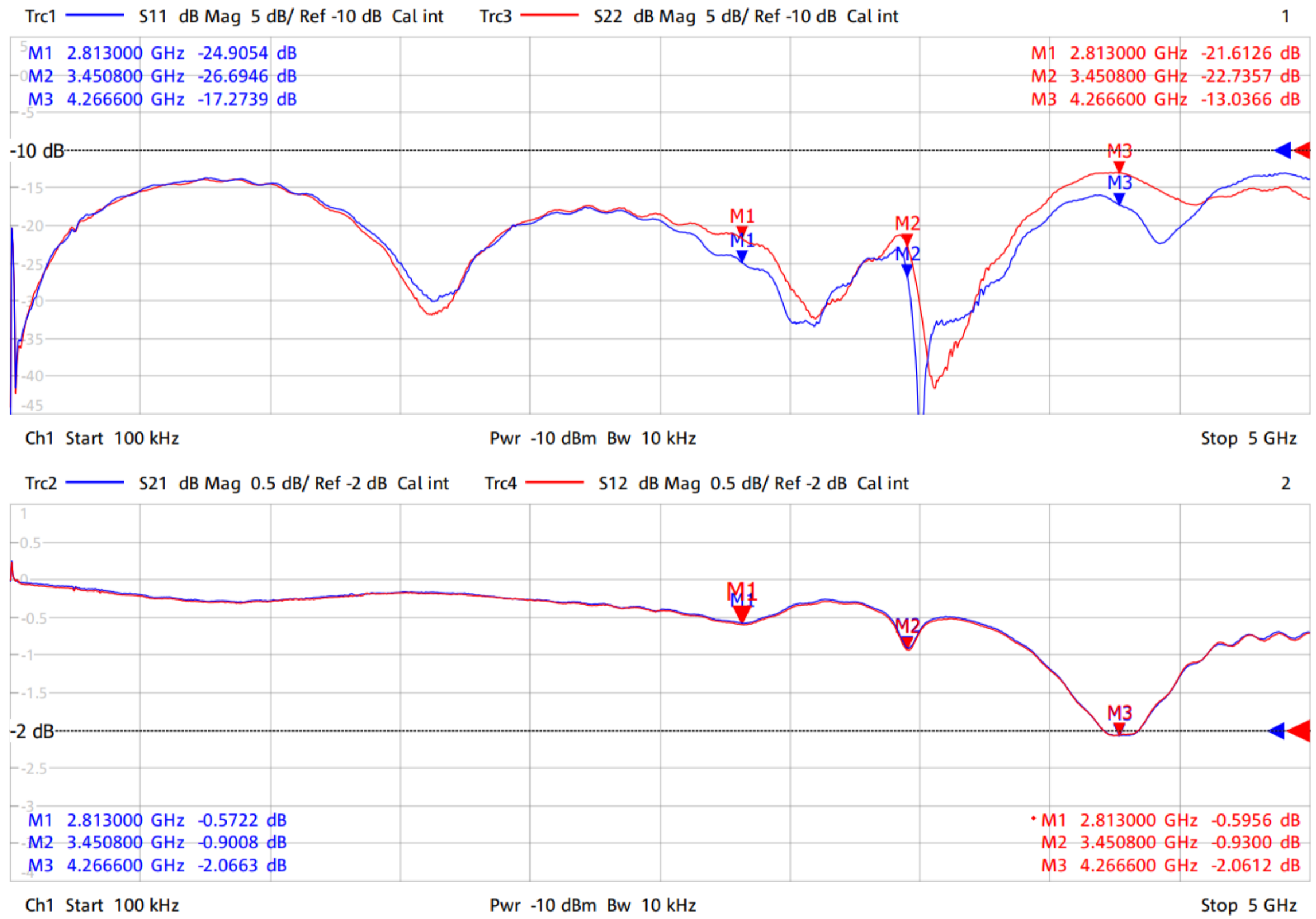
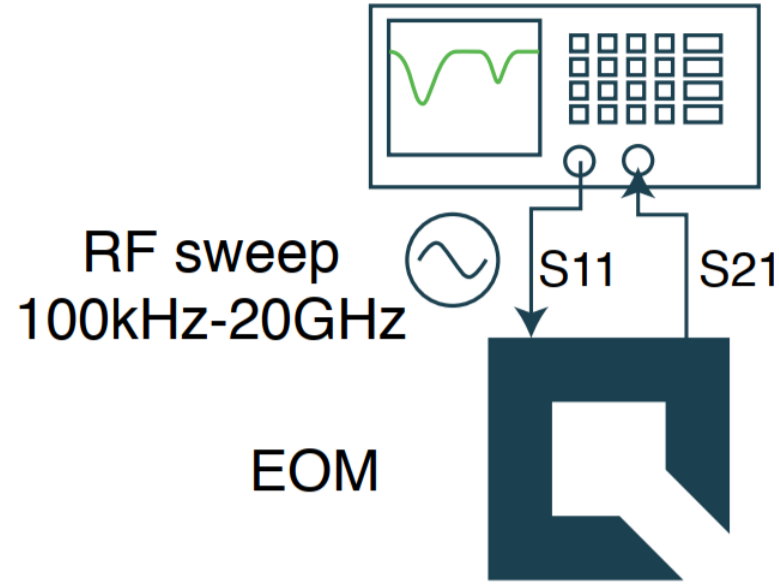
(1) use of a RF circulator is necessary. No damage with RFin < 10W, but use of a proper heatsink recommended

# Measured modulation



# S-Parameters

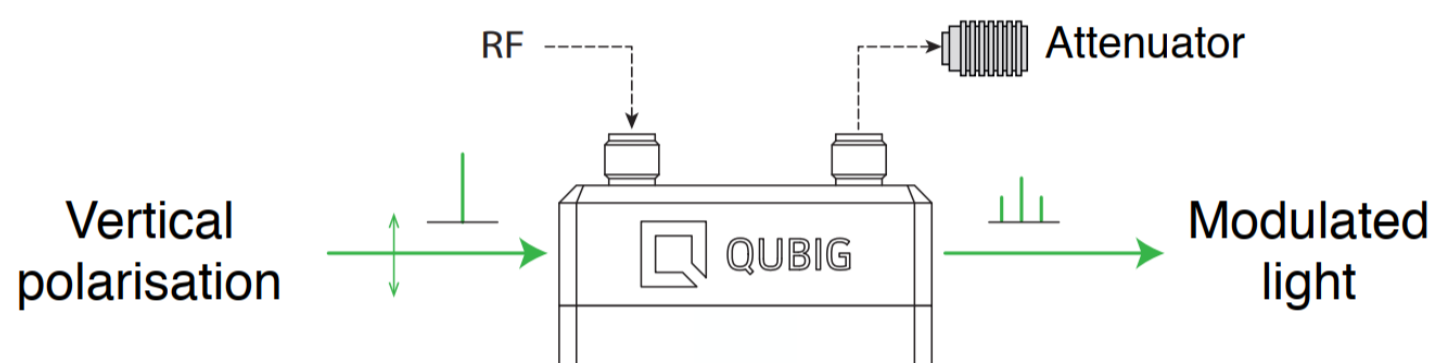
## Vector Network Analyser



## Handling instructions

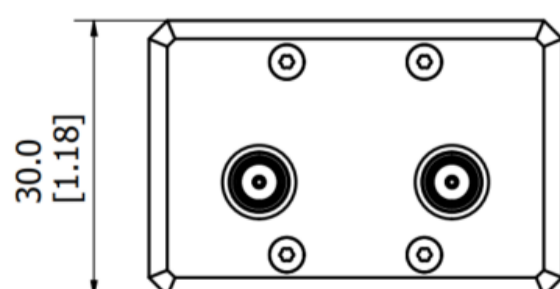
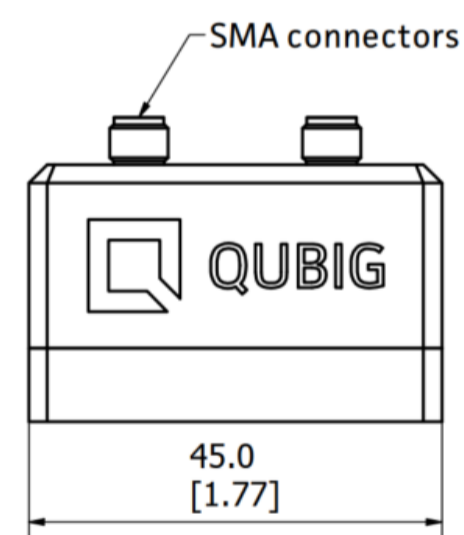
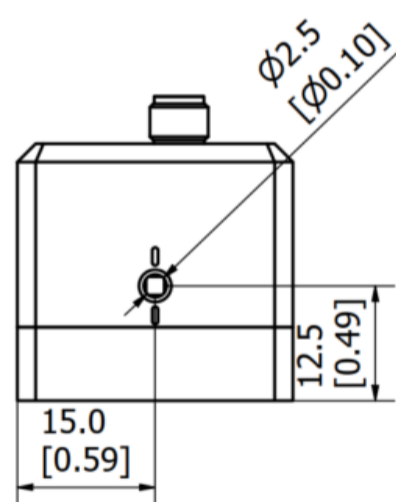
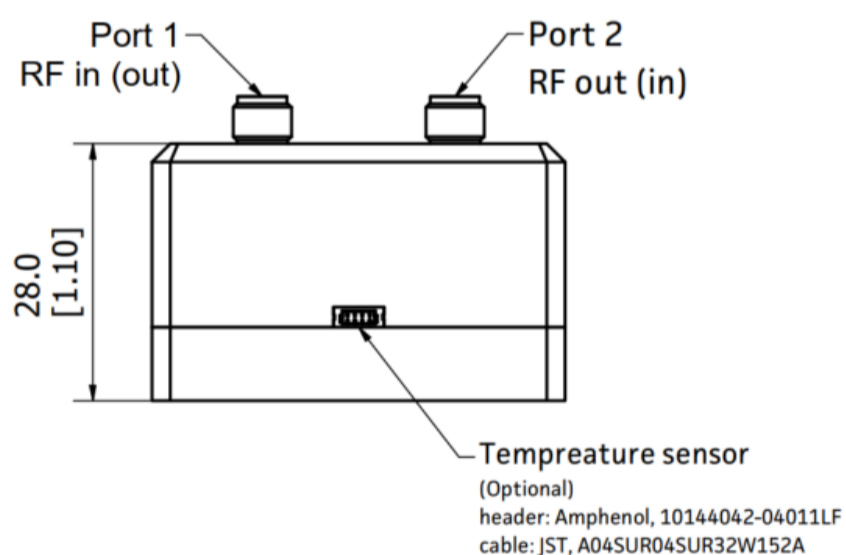
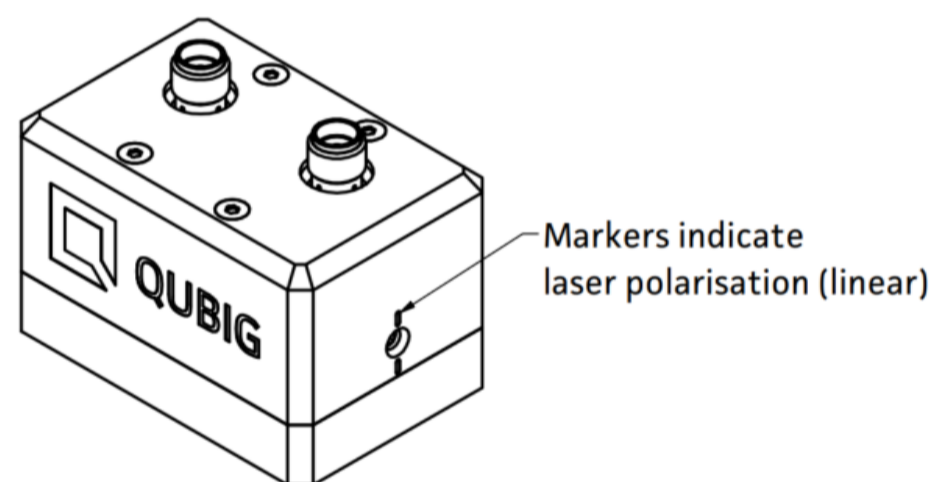
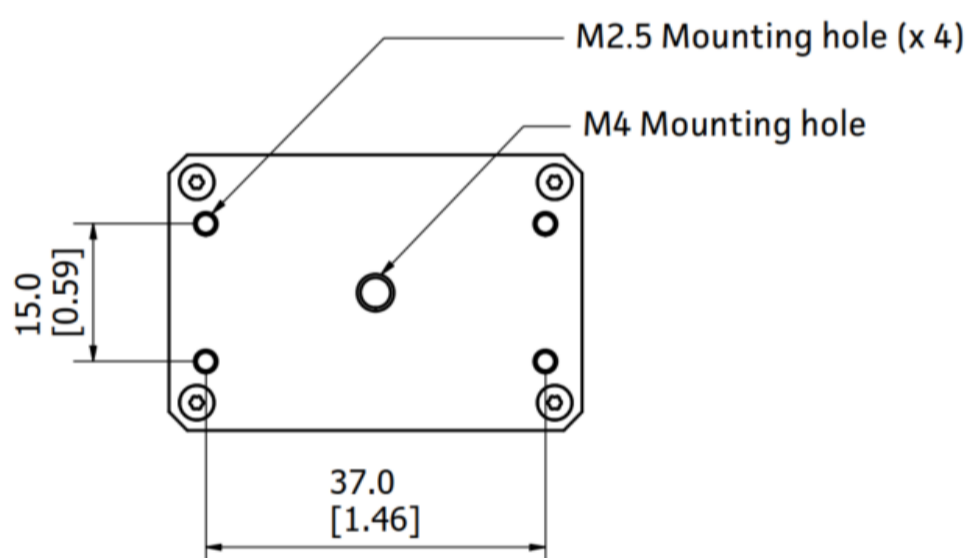
- Input laser polarisation must be aligned with respect to the white markers on the housing
- Radio frequency signal must propagate in the same direction as the light beam.
- An RF-attenuator must be used at the RF-out port.
- Please handle device carefully. Avoid shock. Do not drop.
- Slight angle adjustment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

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