QUBIG

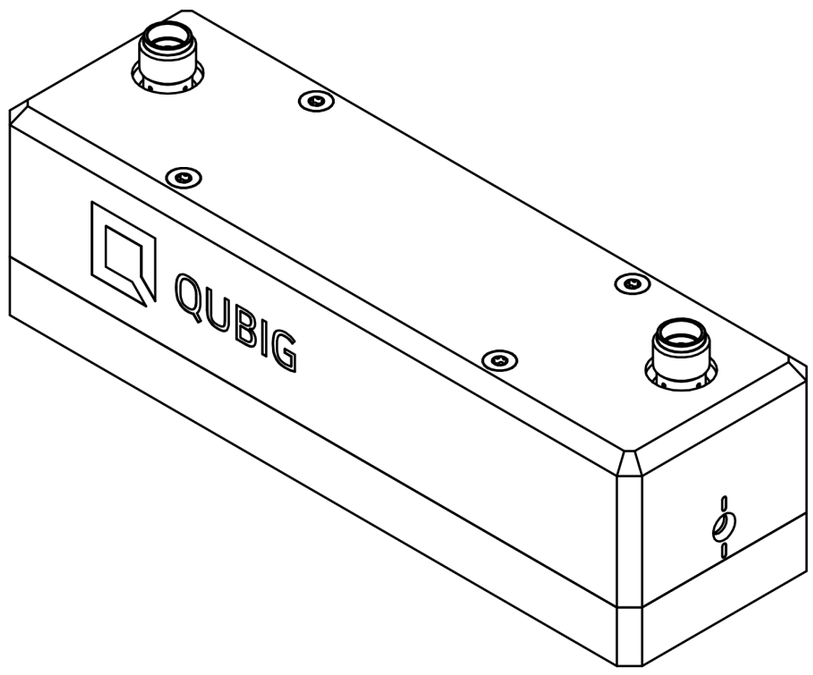
Empowering laser technologies

Test Data sheet

TWP2M2-VIS

Sample Data Sheet

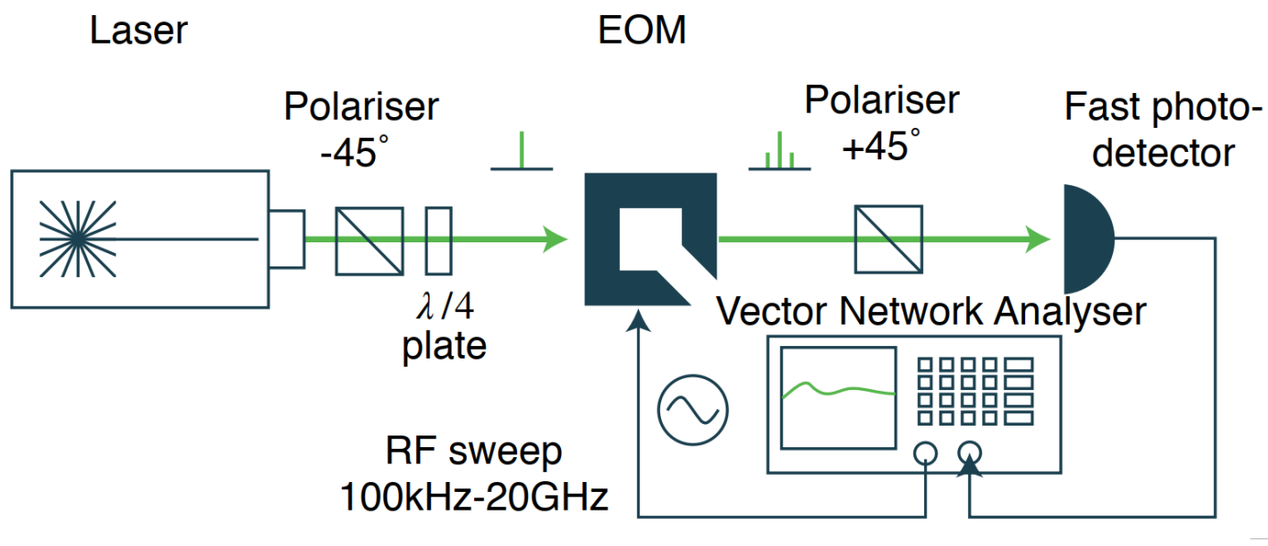
Free-space traveling-wave broadband electro-optic phase modulator



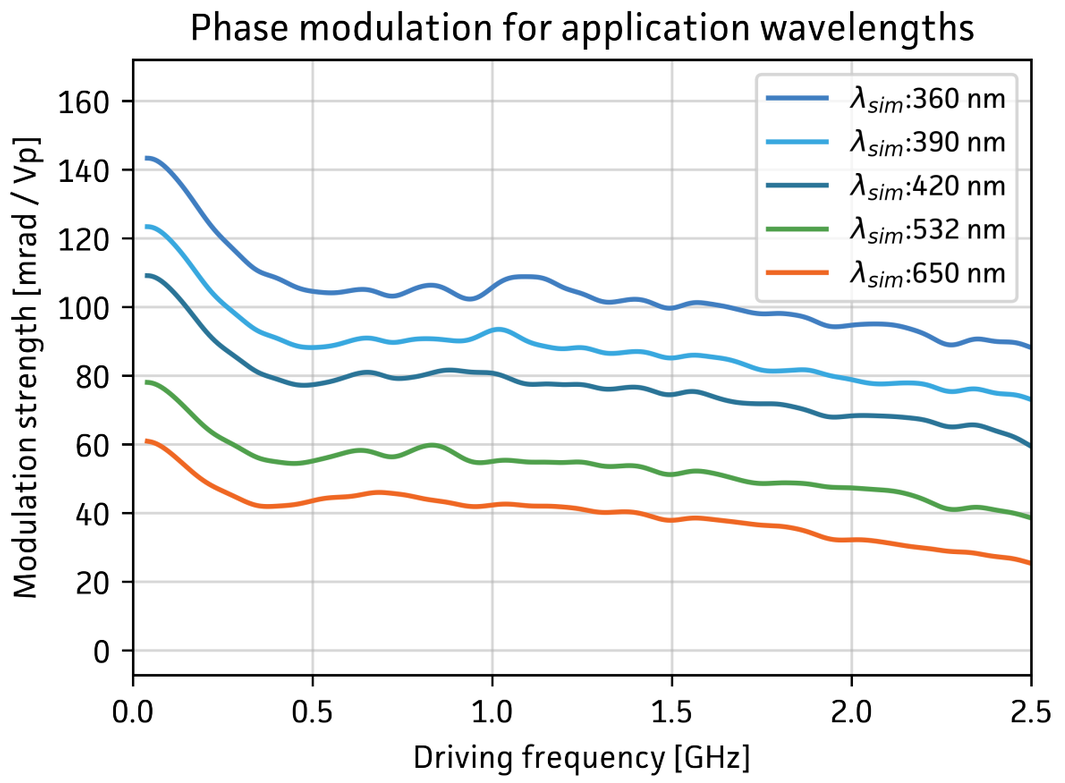
Property	Value	Unit
Modulation efficiency (532nm)	~ 54.0	mrad/Vp
Modulation bandwidth	~2	GHz
Max RF power[1]	40	dBm
Apperture	~ 2x2	mm^2
Wavefront distortion (633nm)	$<\lambda/6$	nm
Maximum optical intensity (532nm)	5	W/mm^2
AR coating (R<0.5%)	360-650	nm

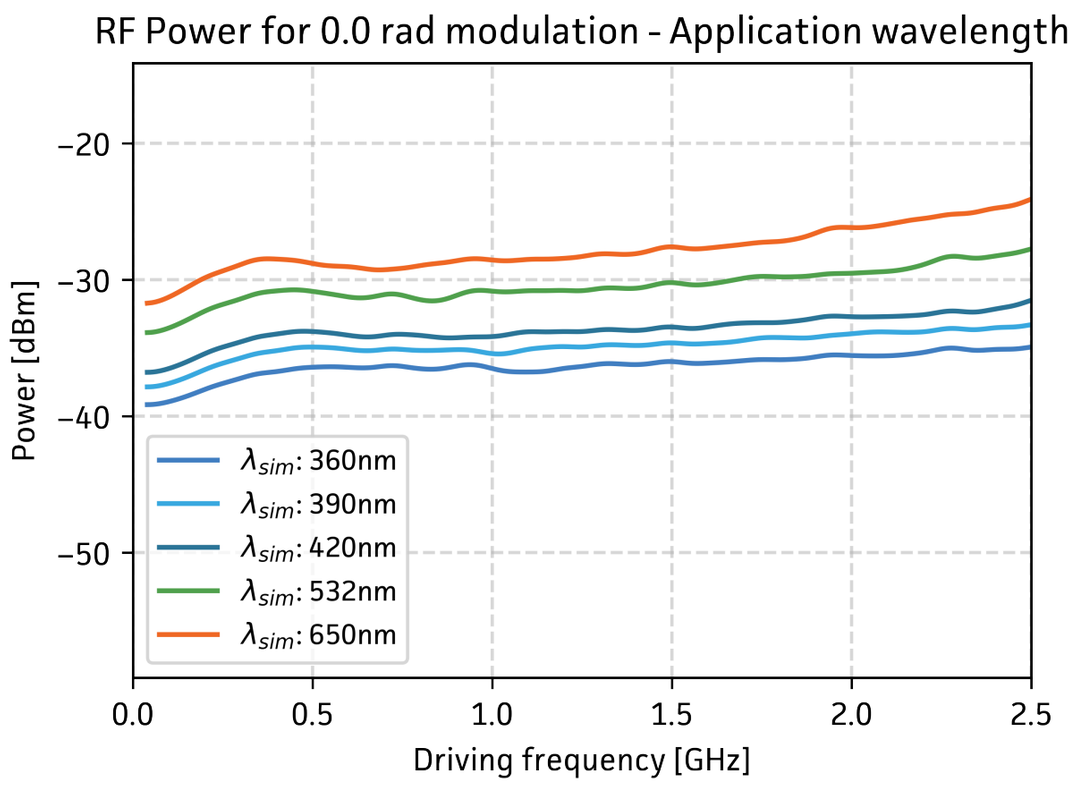
(1) use of a RF circulator is necessary. No damage with RFin < 10W, but use of a proper heatsink recommended

Measured modulation

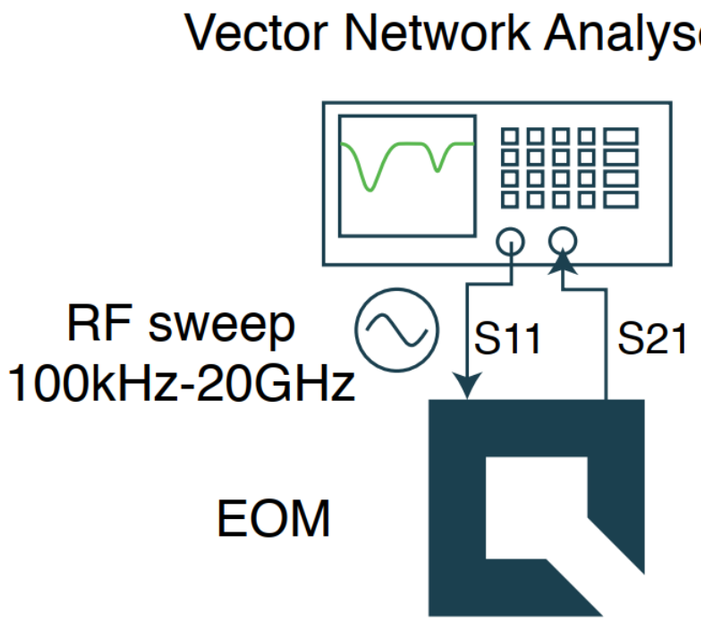


Test setup

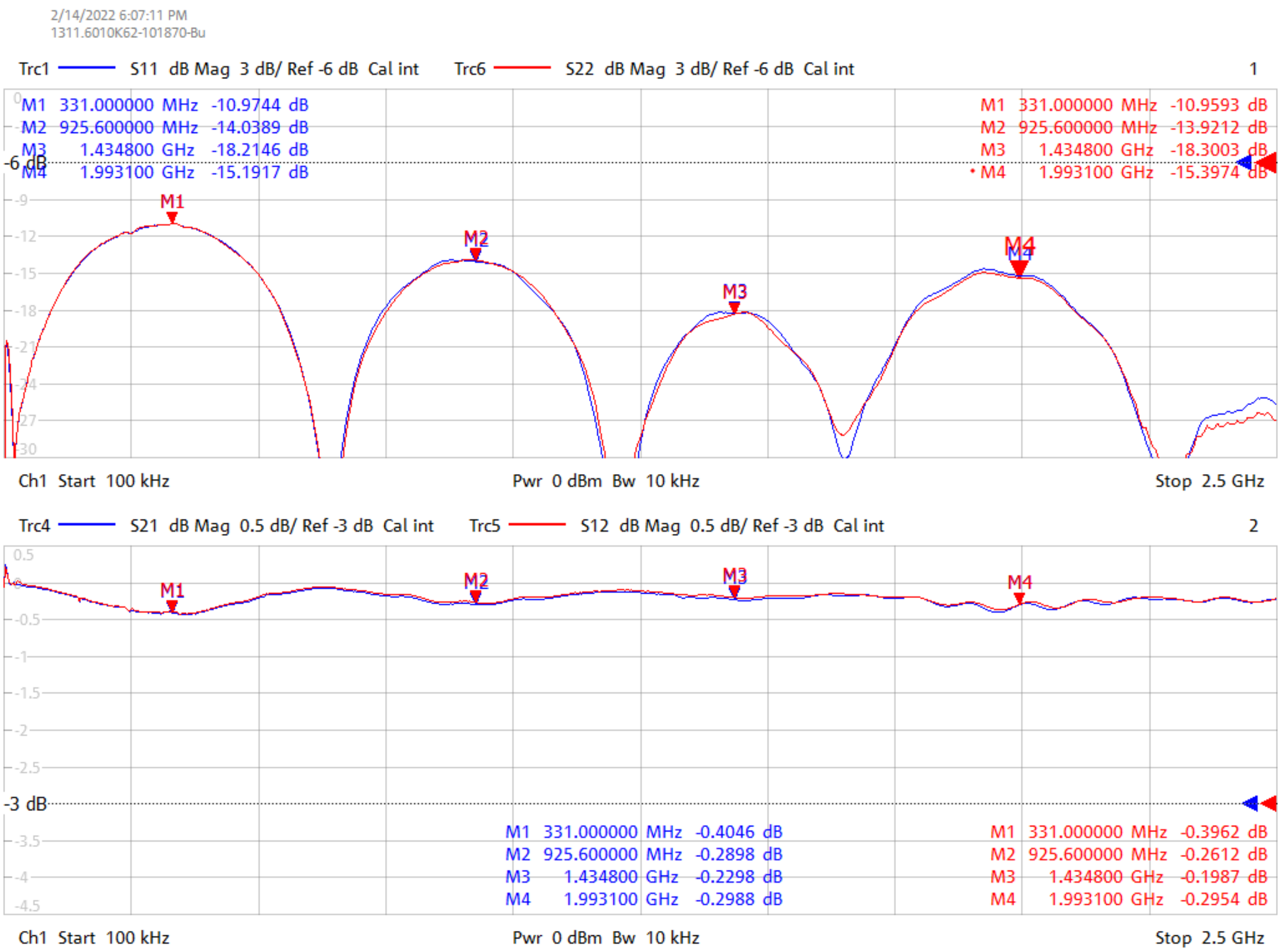




S-Parameters



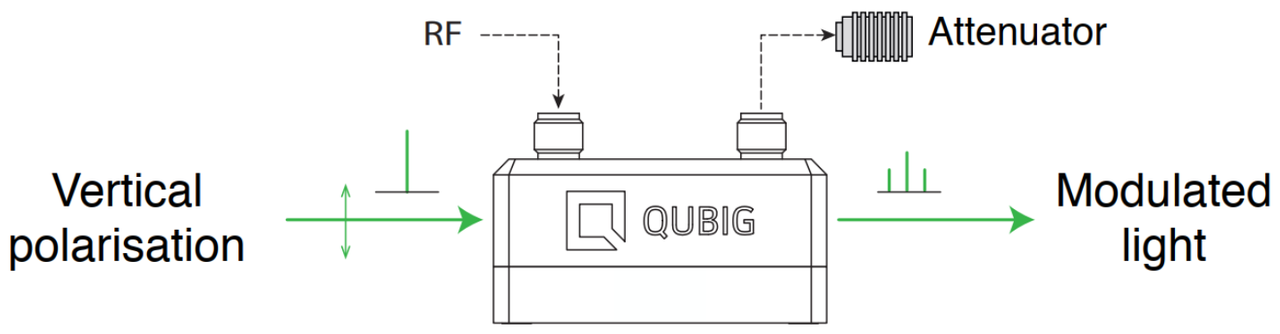
Test setup



Handling instructions

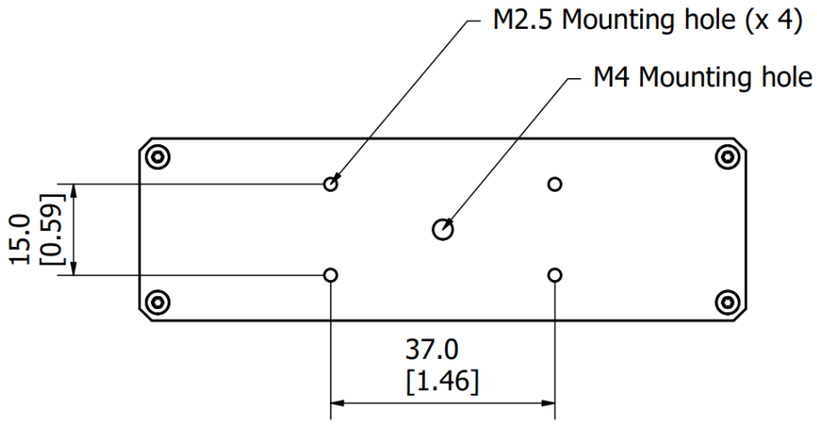
- Input laser polarisation must be aligned with respect to the white markers on the housing
- Radio frequency signal must propagate in the same direction as the light beam.
- An RF-attenuator must be used at the RF-out port.
- Please handle device carefully. Avoid shock. Do not drop.
- Slight angle adjustment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

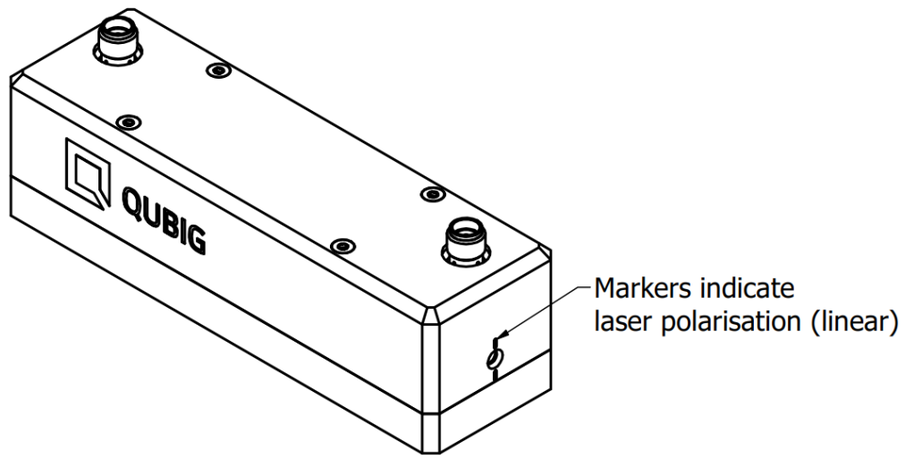
Operation configuration

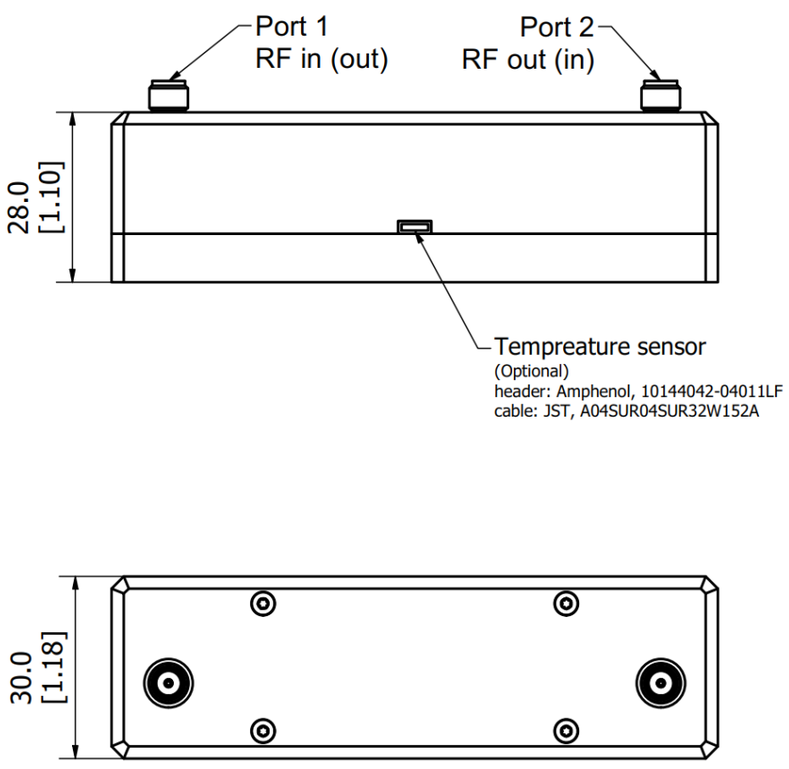


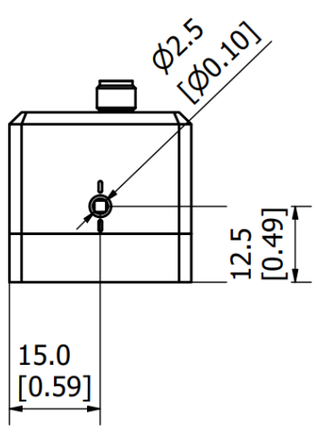
The use of a long coaxial cable between the EOM and the RF attenuator is recommended to avoid heating for high RF power.

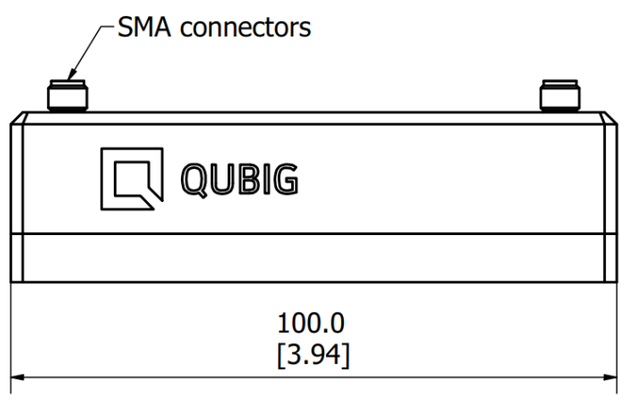
Package drawing











All units in mm [inches]

Tested by

_____

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