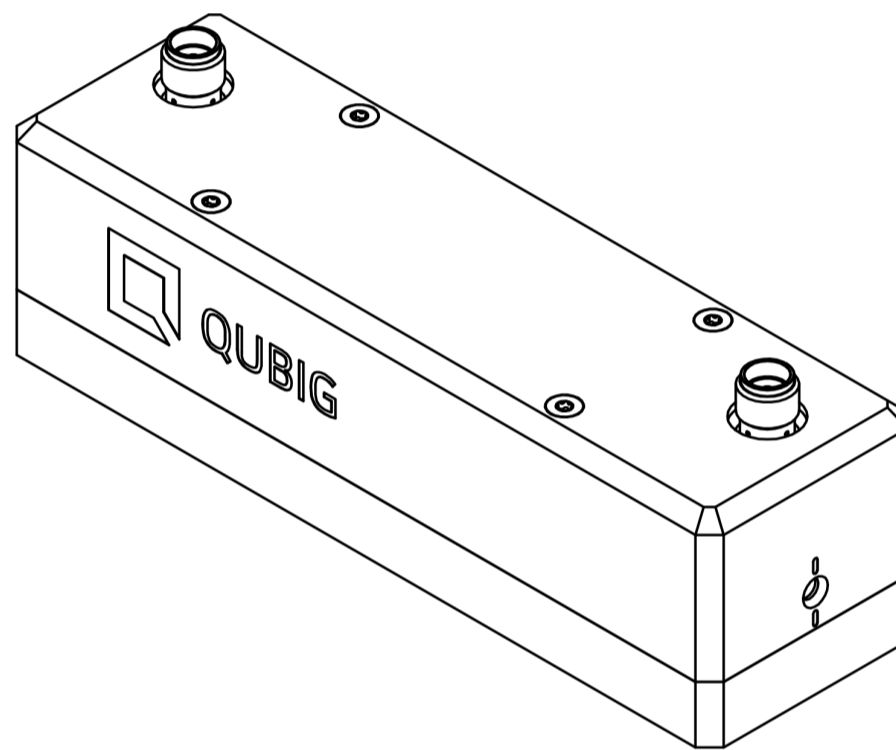


Test Data sheet

TWP2M2-NIR

Sample Data Sheet

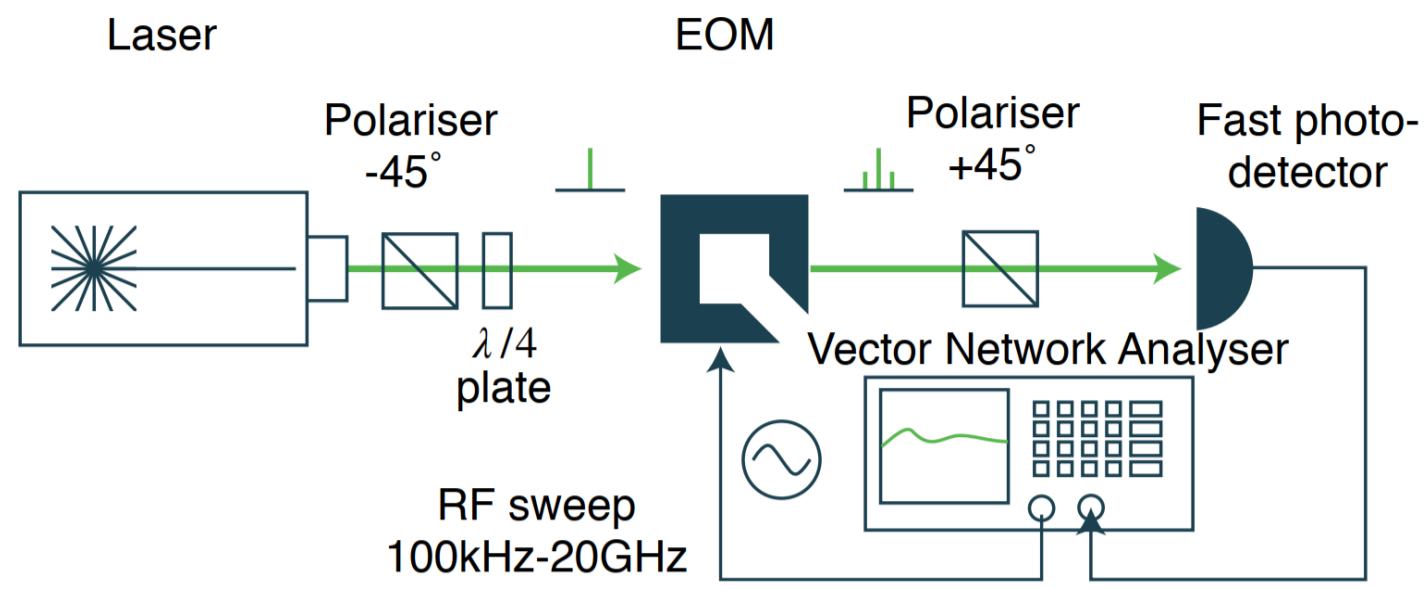
Free-space traveling-wave
broadband electro-optic phase modulator



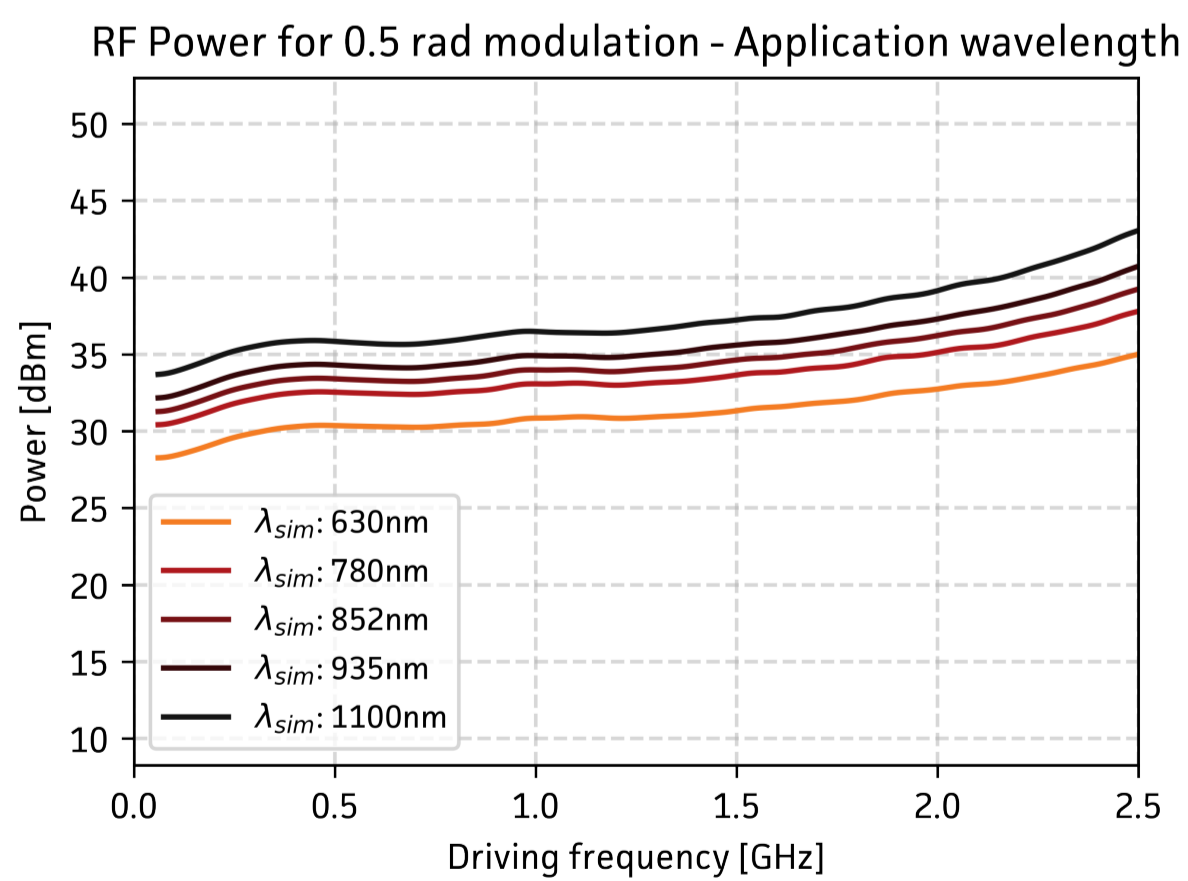
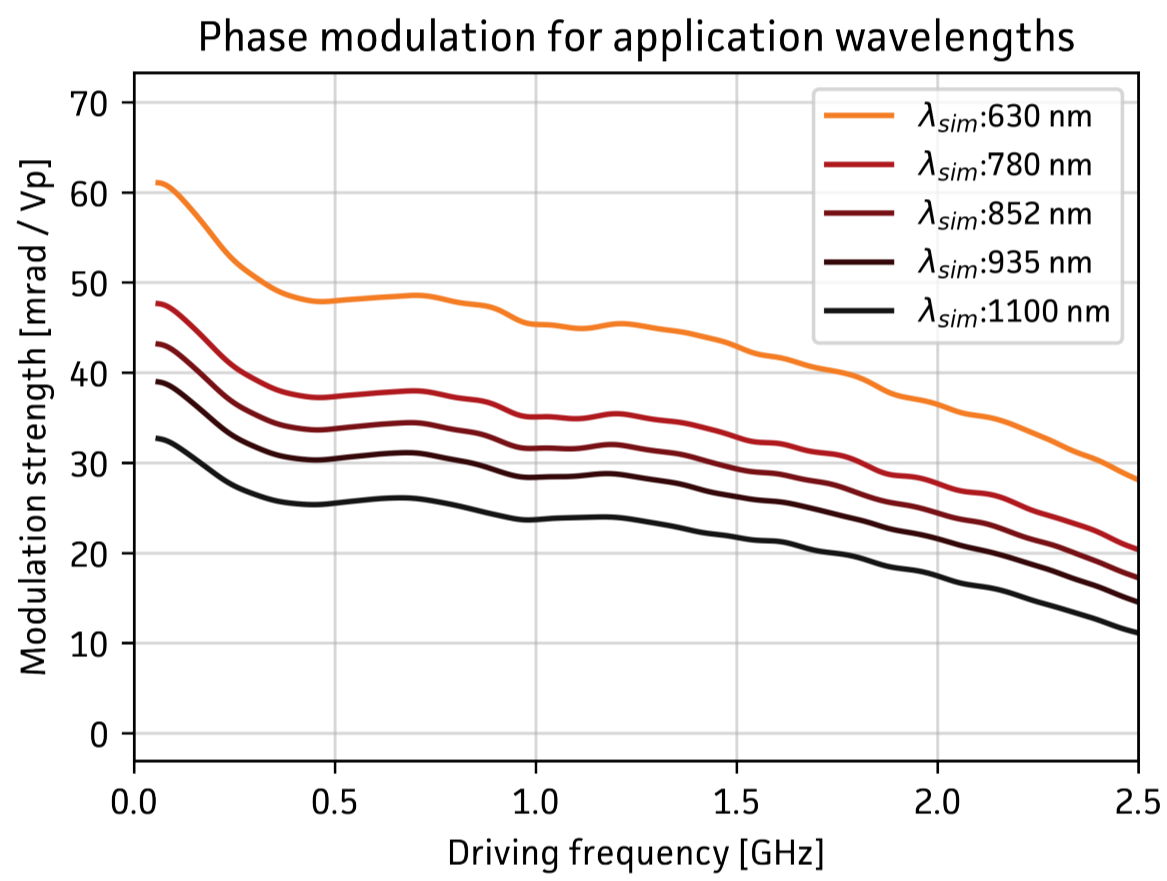
Property	Value	Unit
Modulation efficiency (780nm)	~ 35.0	mrاد/Vp
Modulation bandwidth	~2	GHz
Max RF power ¹	40	dBm
Apperture	~ 2x2	mm ²
Wavefront distortion (633nm)	<λ/6	nm
Maximum optical intensity (780nm)	5	W/mm ²
AR coating (R<0.5%)	630-1100	nm

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

Measured modulation

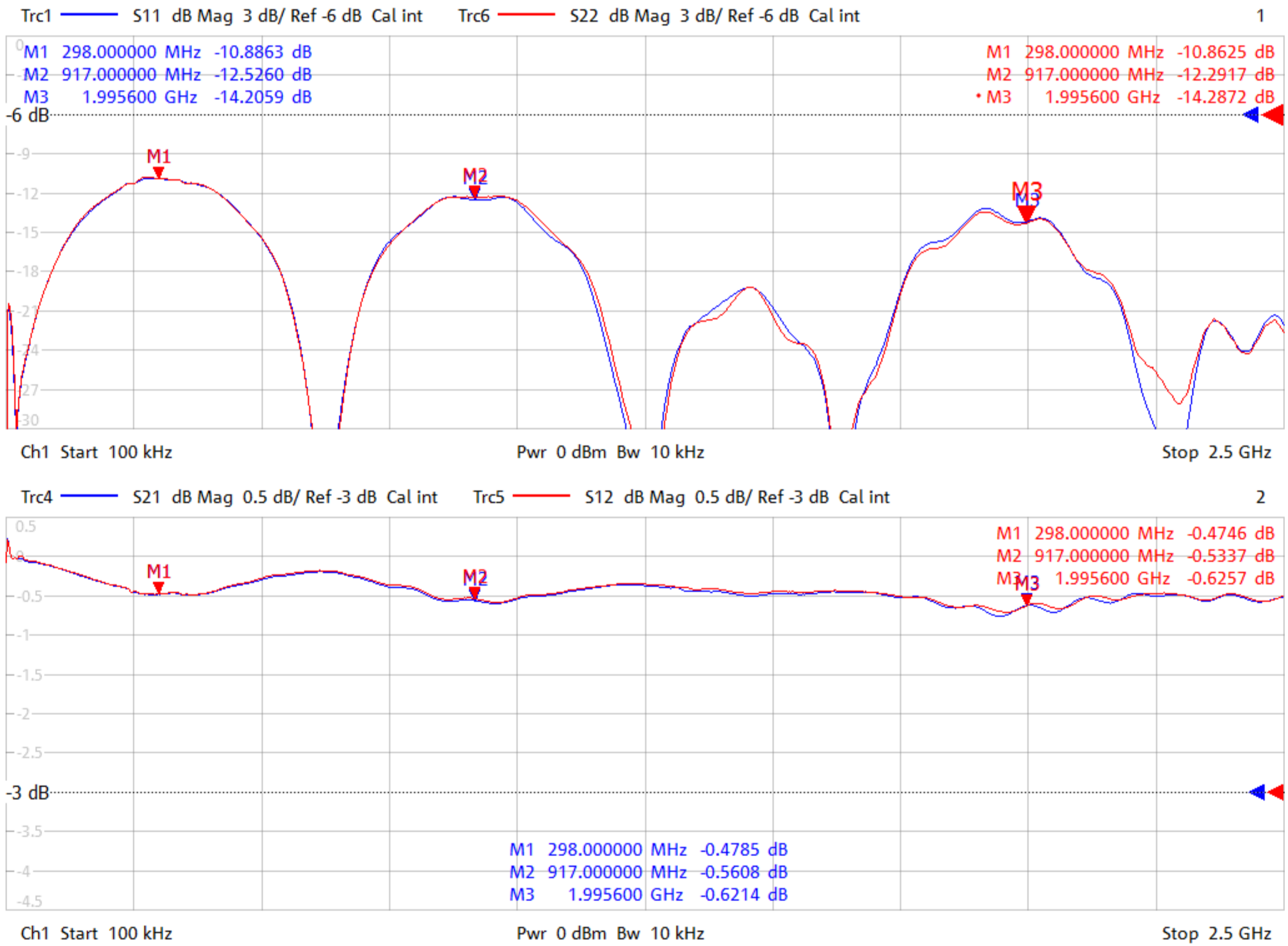
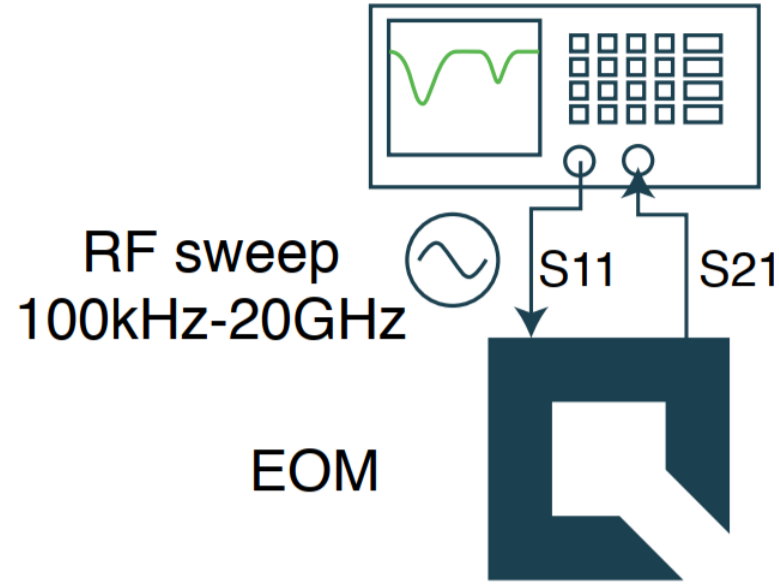


Test setup



S-Parameters

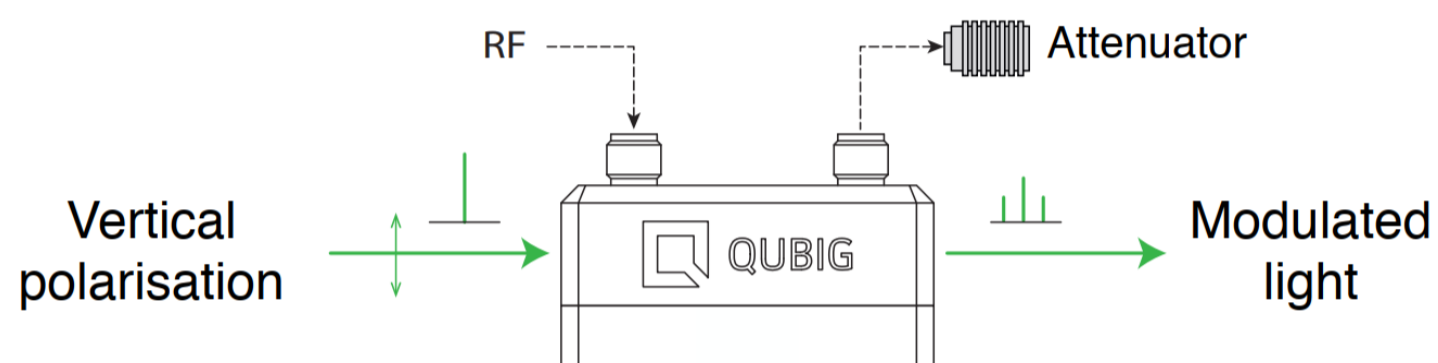
Vector Network Analyser



Handling instructions

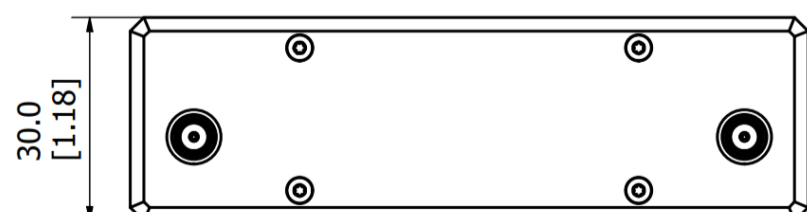
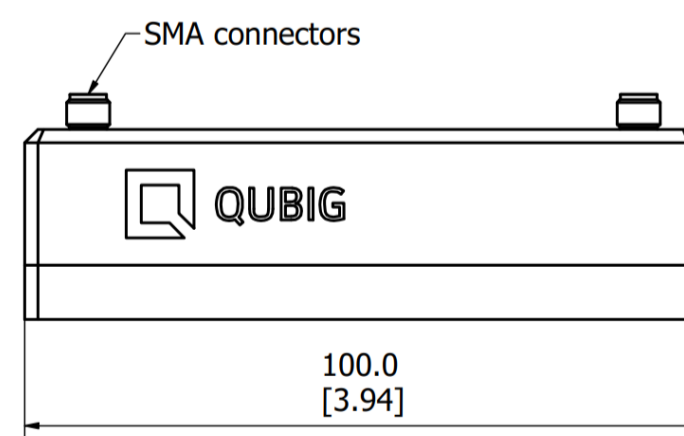
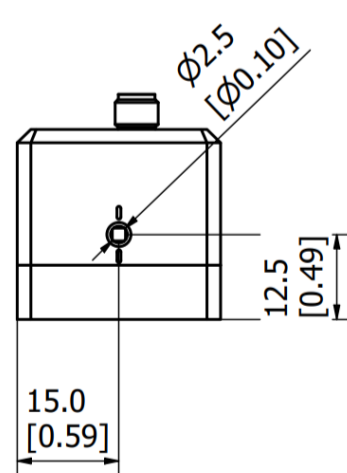
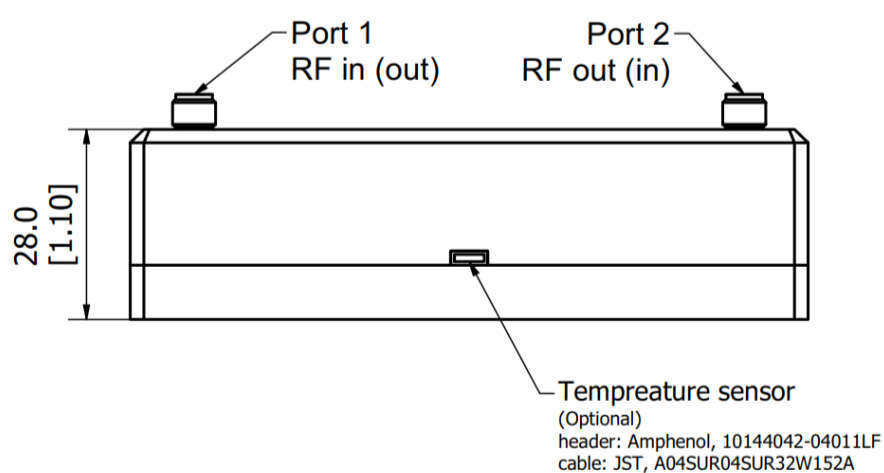
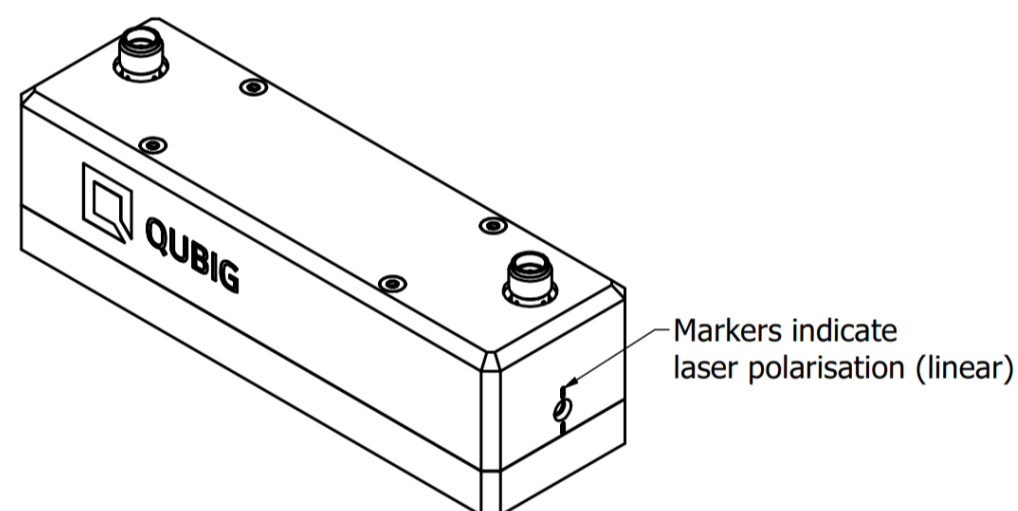
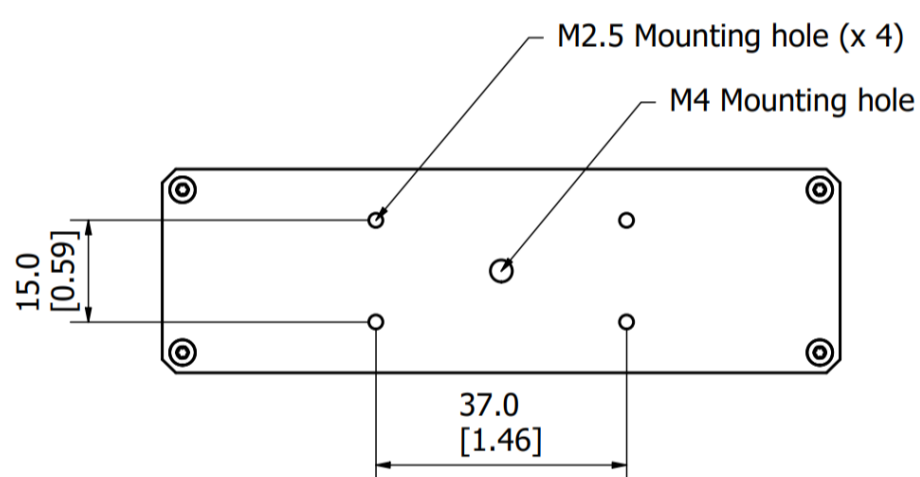
- Input laser polarisation must be aligned with respect to the white markers on the housing
- Radio frequency signal must propagate in the same direction as the light beam.
- An RF-attenuator must be used at the RF-out port.
- Please handle device carefully. Avoid shock. Do not drop.
- Slight angle adjustment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

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