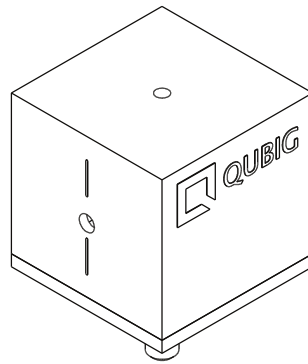


# Test Data Sheet

**PM7-SWIR1\_20**

22.1235

**Resonant electro-optic phase modulator**



RF properties	Value	Unit
Resonance frequency: $f_0$ <sup>1)</sup>	5.0	MHz
Bandwidth: $\Delta\nu$	101	kHz
Quality Factor: Q	8	
Required RF power for 1rad @ 852nm <sup>2)</sup>	9.3	dBm
max. RF power: $RF_{max}$ <sup>3)</sup>	0.5	W

Optical properties	Value	Unit
Aperture	3x3	mm <sup>2</sup>
Wavefront distortion (633nm)	$\lambda/6$	nm
Recommended optical intensity (852nm)	< 1	W/mm <sup>2</sup>
AR coating ( $R_{avg} < 1\%$ )	630 - 1100	nm

<sup>1)</sup>25°C <sup>2)</sup>with 50Ω termination <sup>3)</sup>no damage with  $RF_{in} < 1W$