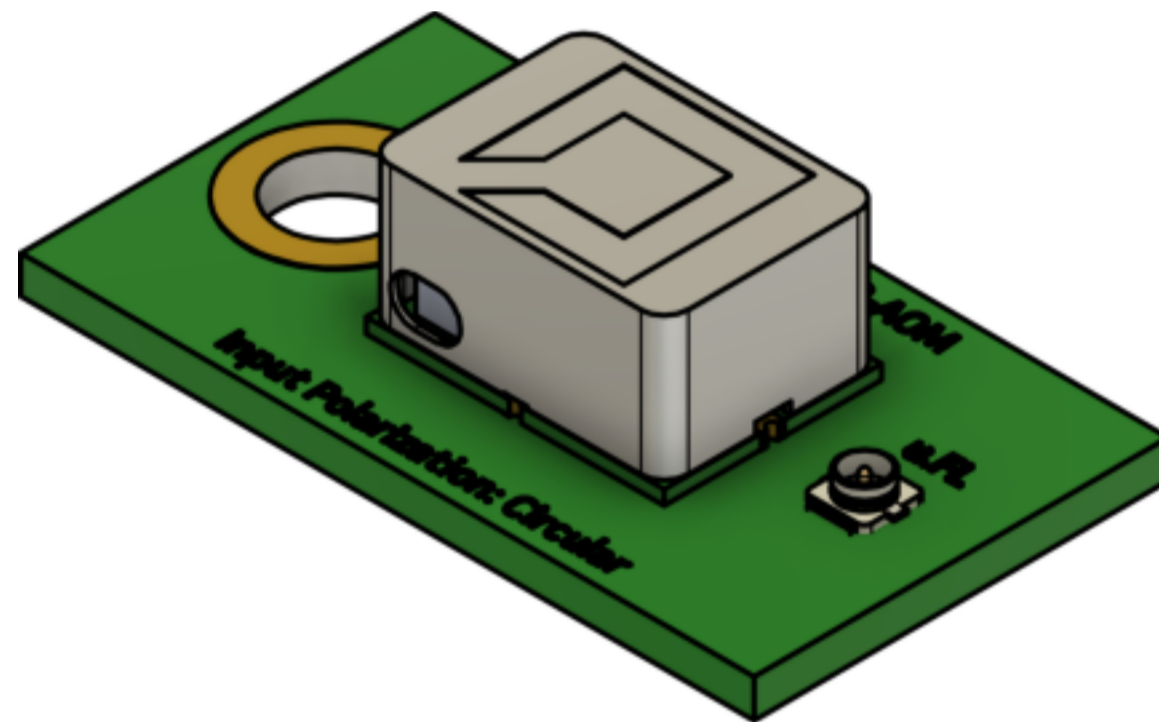


Test Data sheet

Anisotropic SMD-AOM

D.AOM-000.00.014

Surface-Mount Acousto-Optic Modulator with Printed Circuit Board Test Mount

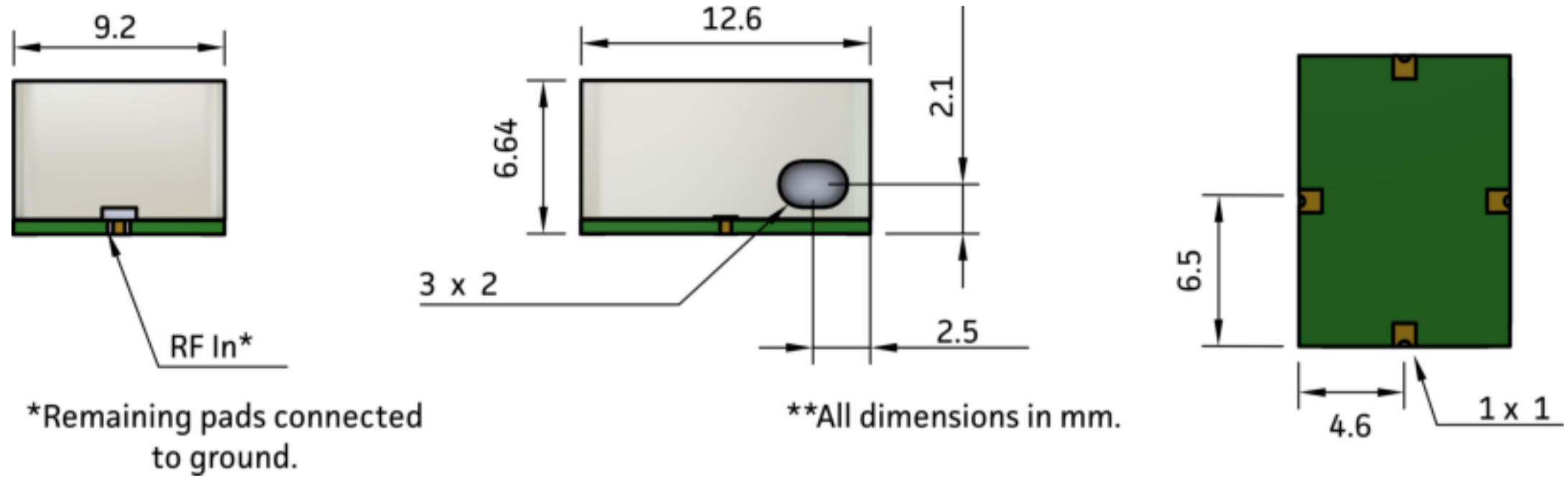


Property	Value	Unit
Operating Frequency	83.62	MHz
Operating Wavelength	421	nm
RF Bandwidth	1.8	MHz
Rise-Time *	315	ns
Saturation RF Power	100	mW
Saturation Diff. Efficiency	>80	%
Max. RF. Power	500	mW
AR coating (R<0.5%)	400-650	nm
Aperture	2 x 3	mm ²

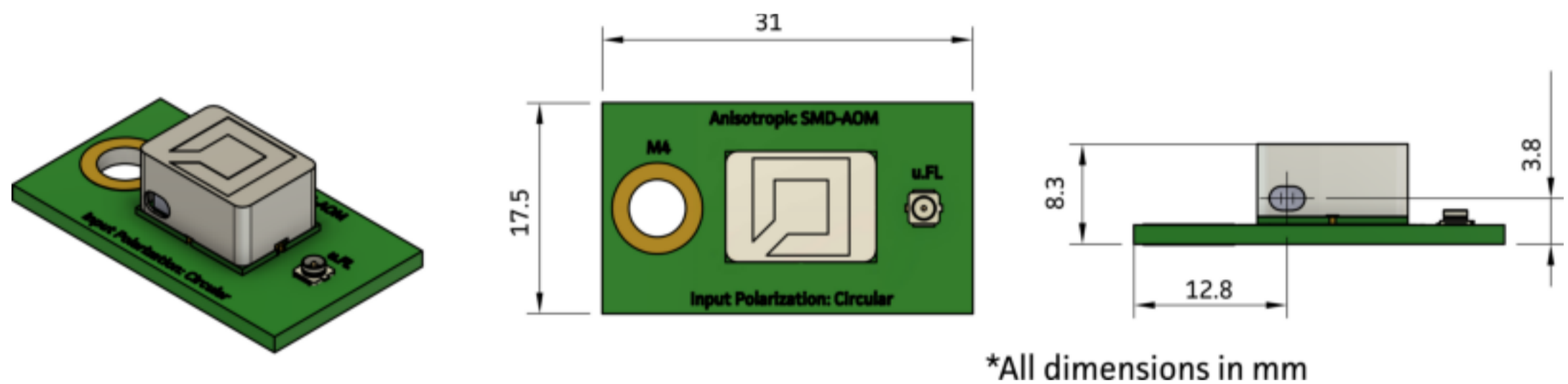
Measurements performed at room temperature. No damage with driving power below maximum value.

* With a beam diameter of 250 μm .

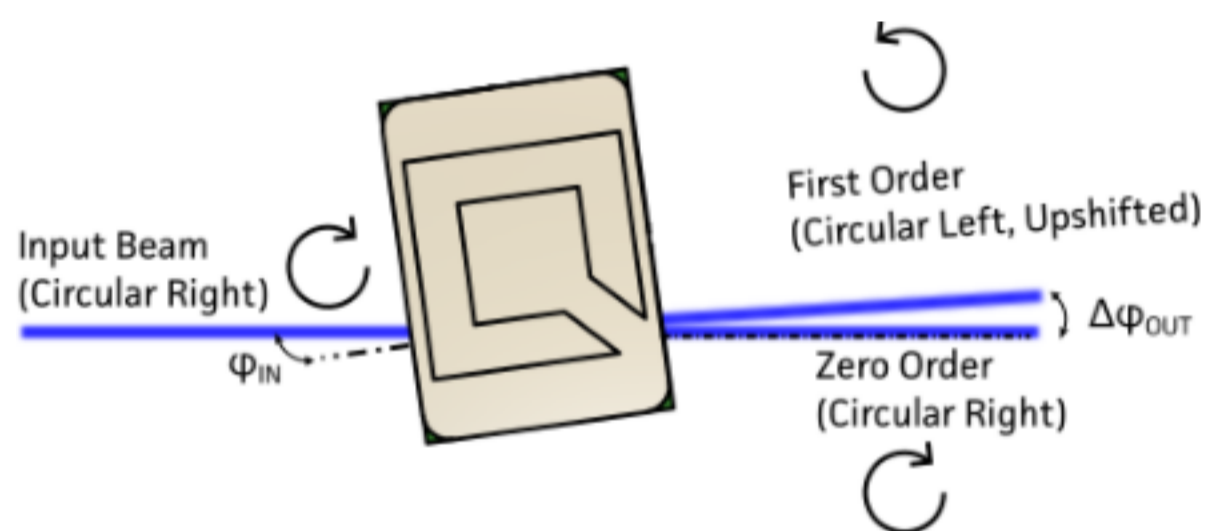
SMD-AOM Drawings



Mounted SMD-AOM Drawings



SMD-AOM Alignment



Measured Values ($\lambda = 421 \text{ nm}$, $f_0 = 83.62 \text{ MHz}$)

Max. Efficiency > 80%

Minimum Rise Time = 305 ns

Max. RF Power = 500 mW

$\Phi_{IN} = 3.4^{\circ}$ **

$\Delta\Phi_{OUT}^{**} = 3.3^{\circ}$

**All values with a tolerance of 10%.

Handling instructions

- After turn on the RF power at the working frequency, the performance of the device might drift slightly. Please wait approximately one minute for correct thermallization.
- Please handle device carefully. Avoid shock. Do not drop.

Tested by

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