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12041-3-BR-TE AOML

For use in the 700–1100 nm wavelength range with an operating frequency of 41 MHz, and an active aperture of 2 mm, with a Brewster window.

Wavelength: 700–1100 nm
Operating Frequency: 41 MHz
Active Aperture: 2.0 mm
Window type: Brewster

Product description

This mode locker transducer operates at a precise frequency with a very narrow bandwidth and includes a thermoelectric heat pump to fine-tune the resonant mode locker frequency which is adjusted to match the precise driver frequency.

Key features

- Precise frequency operation
- Very narrow bandwidth

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Specifications

Name	Value
Wavelength	700–1100 nm
Operating Frequency	41 MHz
Active Aperture	2.0 mm
Window type	Brewster
Interactive material	SiO_2
Acoustic mode	Longitudinal
Static transmission	≥99%
Mode spacing	364 KHz typical
Loss modulation	Average: ≥10% with linear polarization, perpendicular to acoustic propagation
Acoustic aperture	2 mm
Deflection angle	7.3 mrad @ 1.06 µm

Name	Value

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Input impedance	50 Ω
VSWR	≤ 1.5:1 @ resonant frequency
Package	53A3890

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