



DEVICE SPECIFICATIONS

MODEL NUMBER:

13389-BR

DOCUMENT NUMBER: 56A04902D

<u>PARAMETER</u>	<u>SPECIFICATION</u>
Interactive Material	SiO ₂
Acoustic Mode	longitudinal
Operating Wavelength	Used for Various λ Specifications shown for 633 nm
Window Configuration	Brewster, $\lambda/10$ over acoustic aperture
Static Transmission	≥ 99 %
Operating Frequency	389 MHz
Diffraction Efficiency	≥ 5.5 % @ 500 mW with linear polarization, perpendicular to acoustic propagation.
Acoustic Aperture Size	60 μm in air
Rise Time	≤ 6 ns
Optical Waist Size to achieve Rise Time	44 μm
Deflection Angle	41 mrad @ 633 nm
RF Power Level	≤ 10 watts peak with ≤ 5 % duty cycle and ≤ 10 nsec pulse width ≤ 500 mW CW or average
Impedance	50 Ohms nominal
VSWR	$\leq 1.5:1$ @ 389MHz, $\leq 6:1$ @ 299, 479 MHz
Package:	53A5314
Optional Package	53D3563

For More Information, Contact: sales@goochandhousego.com www.goochandhousego.com

As part of our policy of continuous product improvement we reserve the right to change specifications at any time.

DEVICE SPECIFICATIONS

MODEL NUMBER:

17389-.93-FOA / 71009

DOCUMENT NUMBER: 56A15415F

<u>PARAMETER</u>	<u>SPECIFICATION</u>
Interactive Material	TeO ₂
Acoustic Mode	Longitudinal
Operating Wavelength	700 - 1064 nm
Window Configuration	AR Coated
Static Transmission	≥ 95 %
Operating Frequency	389 MHz
Diffraction Efficiency	≥ 70% @ 800 nm with linear polarization, perpendicular to acoustic propagation
	≥ 60% @ 800 nm with random polarization
Acoustic Aperture Size	70 μm
Rise Time	≤ 7 nsec
Optical Waist Size to Achieve Rise Time	35 μm
Extinction Ratio	≥ 20 dB for neighboring pulses* ≥ 10 dB for neighboring pulses** ≥ 27 dB for subsequent pulses*** @ ≤ 80 MHz pulse rep rate
Deflection Angle	73 mrad @ 800 nm
RF Power Level	≤ 700 mW average/ 5 watts peak 10% max duty cycle with 10 nsec pulse
Impedance	50 Ohms nominal
VSWR	≤ 1.2:1 @ 389 MHz ≤ 4:1 @ 289, 489 MHz
Package	53B00327

* When used with the 64389.5-SYN-9.5-X driver

** When used with the 31389-5AS or 31389-5AM drivers

***When used with the 64389.5-SYN-9.5-X, 31389-5AS or 31389-5AM drivers

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DEVICE SPECIFICATIONS

MODEL NUMBER:

17389-.93-FOA

DOCUMENT NUMBER: 56A15411G

<u>PARAMETER</u>	<u>SPECIFICATION</u>
Interactive Material	TeO ₂
Acoustic Mode	Longitudinal
Operating Wavelength	700 - 1064 nm
Window Configuration	AR Coated
Static Transmission	≥ 95 %
Operating Frequency	389 MHz
Diffraction Efficiency	≥ 70% @ 800 nm with linear polarization, perpendicular to acoustic propagation
	≥ 60% @ 800 nm with random polarization
Acoustic Aperture Size	70 μm
Rise Time	≤ 7 nsec
Optical Waist Size to Achieve Rise Time	35 μm
Extinction Ratio	≥ 20 dB for neighboring pulses* ≥ 10 dB for neighboring pulses** ≥ 27 dB for subsequent pulses*** @ ≤ 80 MHz pulse rep rate
Deflection Angle	73 mrad @ 800 nm
RF Power Level	≤ 700 mW average ≤ 5 watts peak with ≤ 10% duty cycle with 10 nsec pulse
Impedance	50 Ohms nominal
VSWR	≤ 1.2:1 @ 389 MHz ≤ 4:1 @ 289, 489 MHz
Package	53B0597

* When used with the 64389.5-SYN-9.5-X driver

** When used with the 31389-5AS or 31389-5AM drivers

***When used with the 64389.5-SYN-9.5-X, 31389-5AS or 31389-5AM drivers

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DEVICE SPECIFICATIONS

MODEL NUMBER:

MPP389-.15C17G-C-FOA

DOCUMENT NUMBER: 56A21970

<u>PARAMETER</u>	<u>SPECIFICATION</u>
Interaction Material	GaP
Acoustic Mode	Longitudinal
Operating Wavelength	1.06 μm
Window Configuration	AR coating
Static Transmission	$\geq 75\%$
Operating Frequency	389 MHz
Diffraction Efficiency	$\geq 56\%$ @ 2.5 watts peak, $\geq 40\%$ @ 1 Watt CW with linear polarization parallel to acoustic propagation
Acoustic Aperture Size	150 μm
Rise Time	≤ 4 nsec
Optical Waist Size To Achieve Rise Time	40 μm
Extinction Ratio	$\geq 20\text{dB}$ for neighboring pulses* $\geq 10\text{dB}$ for neighboring pulses** $\geq 27\text{dB}$ for subsequent pulses*** @ $\leq 80\text{MHz}$ pulse rep rate
Deflection Angle	62 mrad
RF Power Level	≤ 2.5 Watts with duty cycle limited to $\leq 20\%$ with RF on duration ≤ 200 nsec ≤ 1 watt average
Impedance	50 Ohms nominal
VSWR	$\leq 1.5:1$
Package	53B4475

*When used with the 64389.5-SYN-9.5-X driver

**When used with the 31389-5AS or 31389-5AM drivers

***When used with the 64389.5-SYN-9.5-X, 31389-5AS or 31389-5AM drivers

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DEVICE SPECIFICATIONS

MODEL NUMBER:

MPP389-.15C17J-C-FOA

ACOUSTO-OPTIC MODULATOR

DOCUMENT NUMBER: 56A22203

<u>PARAMETER</u>	<u>SPECIFICATION</u>
Interaction Material	GaP
Acoustic Mode	Longitudinal
Operating Wavelength	1.55 μm
Window Configuration	AR coating
Static Transmission	$\geq 85\%$
Operating Frequency	389 MHz
Diffraction Efficiency	$\geq 60\%$ @ 5 watts peak with linear polarization, parallel to acoustic propagation
Acoustic Aperture Size	150 μm
Rise Time	≤ 7 nsec
Optical Waist Size To Achieve Rise Time	70 μm
Deflection Angle	90 mrad
RF Power Level	≤ 5 watts peak, with $\leq 15\%$ duty cycle and ≤ 30 nsec on time ≤ 0.75 watts CW or average
Impedance	50 ohms nominal
VSWR	$\leq 1.5:1$
Package	53B4475

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