

811C-L-fc Series

RF Driver (Preliminary Data)



0710

The 811C-L series Drivers are designed to operate with the Isomet low center frequency AO shifters type OAM1059. If required, these drivers can be supplied with a modulation input for the proportional (analog) control of the diffracted laser beam intensity.

These Drivers include is a crystal controlled oscillator, potentiometer for output level adjustment and the RF power amplifier. Efficient heat transfer from the driver is required. The mounting surface must be attached to an external heat sink capable of dissipating 1W.

SPECIFICATIONS

Output impedance:	50Ω Nominal
Load Mismatch VSWR:	2:1 Max
Analogue Input: (831C only)	0 - 1V * for 100% depth of modulation
RF On-Off Ratio:	50 ohm input impedance
	>40dB
Frequency:	
fc = 10	10MHz
fc = 15	15MHz
Frequency Accuracy:	± 0.003%
Frequency Stability:	± 0.003%
Harmonics at 0.5W:	<30dBc
DC Power Input:	+12Vdc regulated to ± 1%, < 250mA
Temperature Range:	-40°C to 70°C ambient, temperature at mounting face must not exceed 70°C.
Mounting Orientation:	Any
	Ensure driver is mounted on a suitable heatsink

PERFORMANCE

Model	Centre Frequency	Modulation Rise/Fall Time	RF Drive Power	Supply
811C-L-10	10 MHz	n/a	> 0.3 W	+12V dc
811C-L-15	15 MHz	n/a	> 0.3 W	+12V dc
831C-L-10	10 MHz	100nsec	> 0.3 W	+12V dc
831C-L-15	15 MHz	100nsec	> 0.3 W	+12V dc

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

Tel: (703) 321 8301 Fax: (703) 321 8546

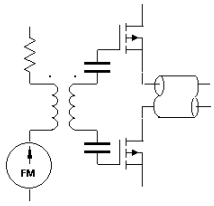
E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

Quality Assured.

In-house: RF & Digital design

Software Development

OEM manufacture



811C-L-fc Series

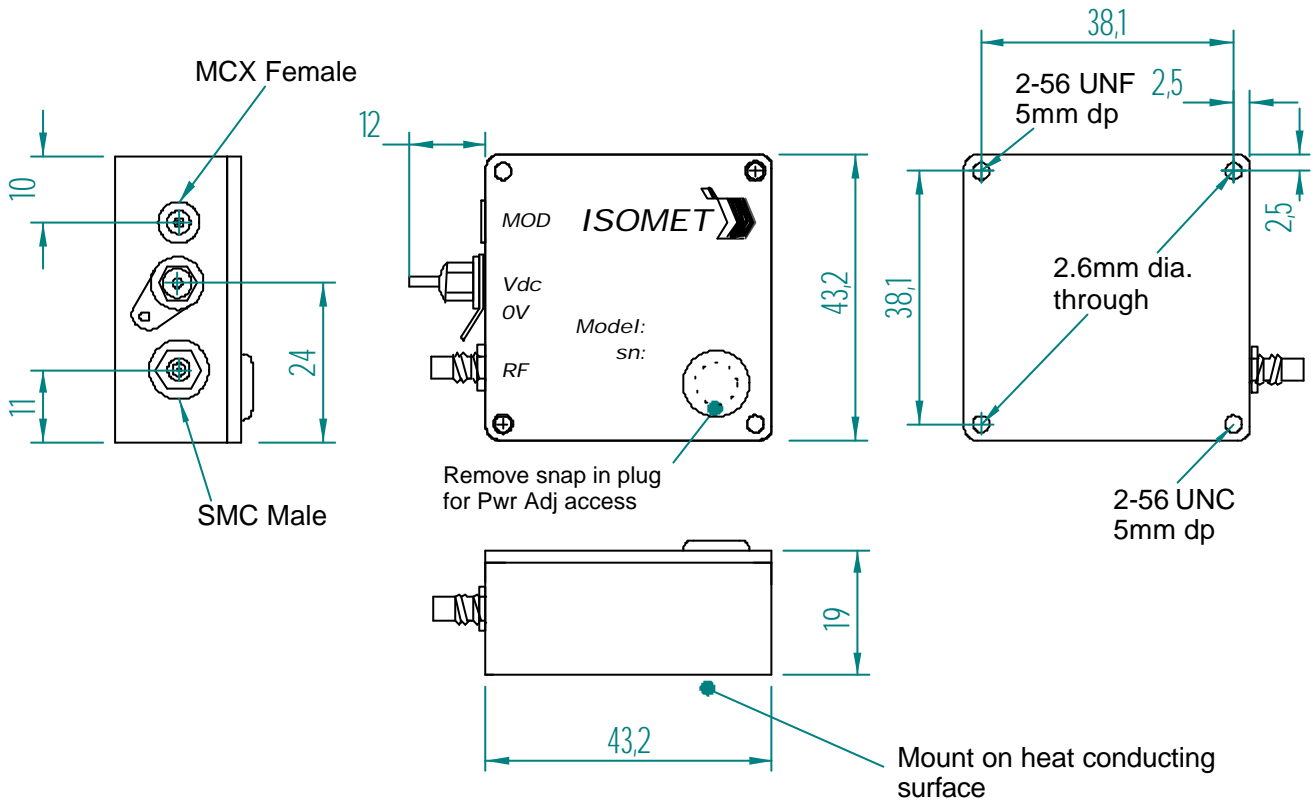


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OUTLINE DRAWING

Dimensions: mm



* Options for 831C-L

Add Suffix

0-5V modulation : ' -V '

0-10V modulation : ' -X '

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