

822C-L Series RF Driver



1012

The 822C series Digital Modulation Drivers are designed to operate with Isomet 80MHz AO modulators , frequency shifters and mini Q-switches for the On/Off control of laser beam intensity.

These RF drivers include a crystal oscillator, a wideband balanced diode ring mixer and RF power amplifier. The mixer is used to switch the amplitude of the RF carrier according to the modulation input signal. The resulting AM signal is subsequently amplified by a Class A MOSFET amplifier.

Efficient heat transfer from the driver is required. The mounting surface must be attached to an external heat sink capable of dissipating 8W.

SPECIFICATIONS

Output impedance:	50Ω Nominal
Load Mismatch VSWR:	2:1 Max
RF On-Off Ratio:	>40dB
Digital Input:	TTL compatible > 2.7V = RF ON, < 0.8V = RF OFF (10mA input current)
Frequency Accuracy:	± 0.003%
Frequency Stability:	± 0.003%
Harmonics at 2W:	<25dBc
DC Power Input:	+12Vdc regulated to ± 1%, < 600mA
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	Minimum Rise/Fall Time	RF Drive Power	Supply
822C-L	80MHz	80/40nsec	>1.4 W >1.7 W	+12V dc +15V dc

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

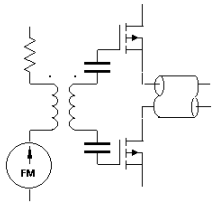
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Quality Assured.

**In-house: RF & Digital design
Software Development
OEM manufacture**



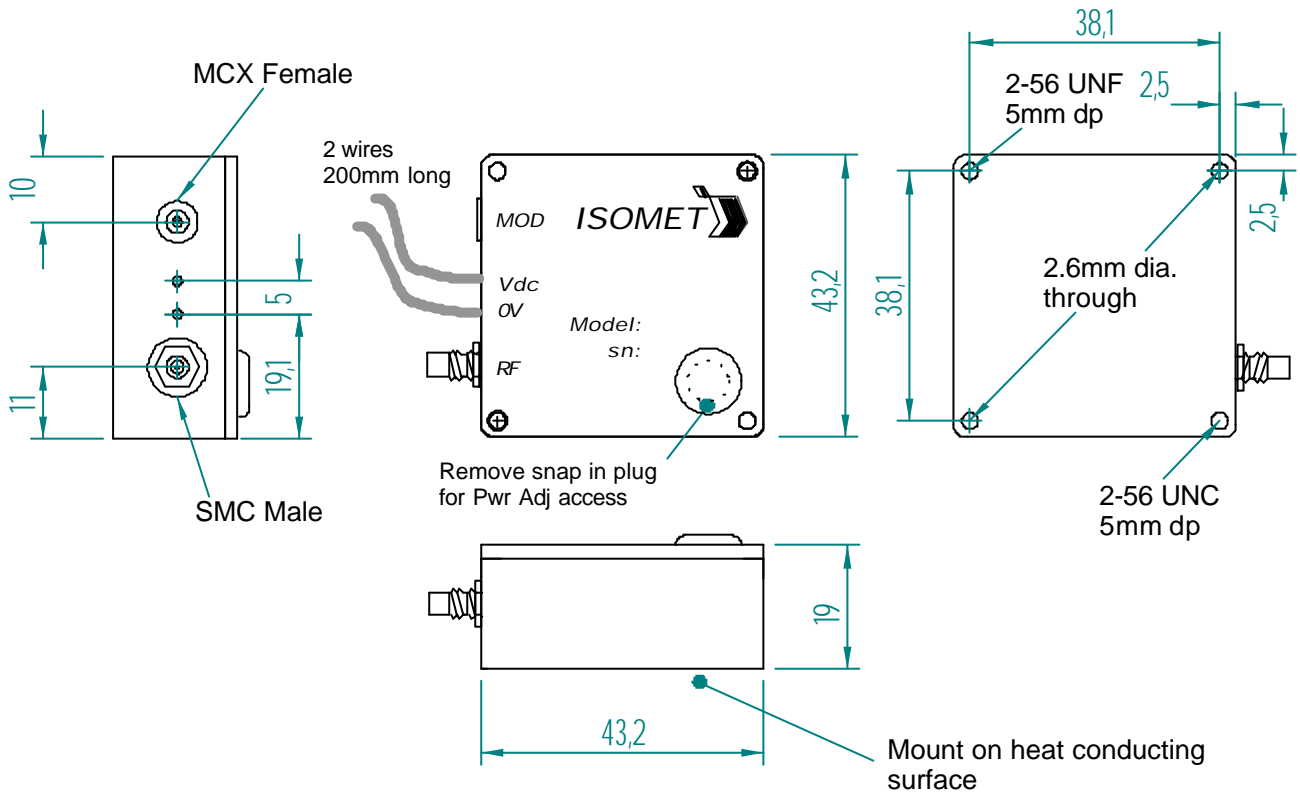
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OUTLINE DRAWING

Dimensions: mm



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