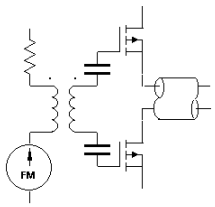

525C-175 Series

RF Driver

ISOMET

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The 525C-175 RF Driver is designed to operate with Isomet 175MHz AO modulators and frequency shifters. This driver allows proportional (analog) control of laser beam intensity.

Contained in these Drivers are a SAW resonator, a wideband mixer, and a RF Power amplifier. A high speed, balanced ring modulator is used to switch the carrier amplitude under the control of the modulation input. The resulting double sideband AM signal is subsequently amplified by a Class A MOSFET amplifier stage.

Efficient heat transfer from the driver requires that the mounting base be attached to an external heat sink not exceeding 60ºC in temperature.

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%
DC Power Input:	+24Vdc regulated to ± 1% < 500mA
Temperature Range:	0°C to 60°C ambient, temperature at mounting face must not exceed 60°C.
Mounting Orientation:	Any
Dimensions:	See Outline, reverse side.

PERFORMANCE

Centre Frequency	Minimum Rise Time	RF Drive Power
175MHz	3nsec	>2.5 W

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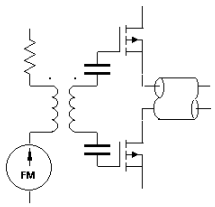
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.
Tel: (703) 321 8301 Fax: (703) 321 8546
E-mail: ISOMET@ ISOMET.COM ***Web Page: WWW.ISOMET.COM***

Quality Assured.
In-house: RF & Digital design
Software Development
OEM manufacture



525C-175 Series

RF Driver

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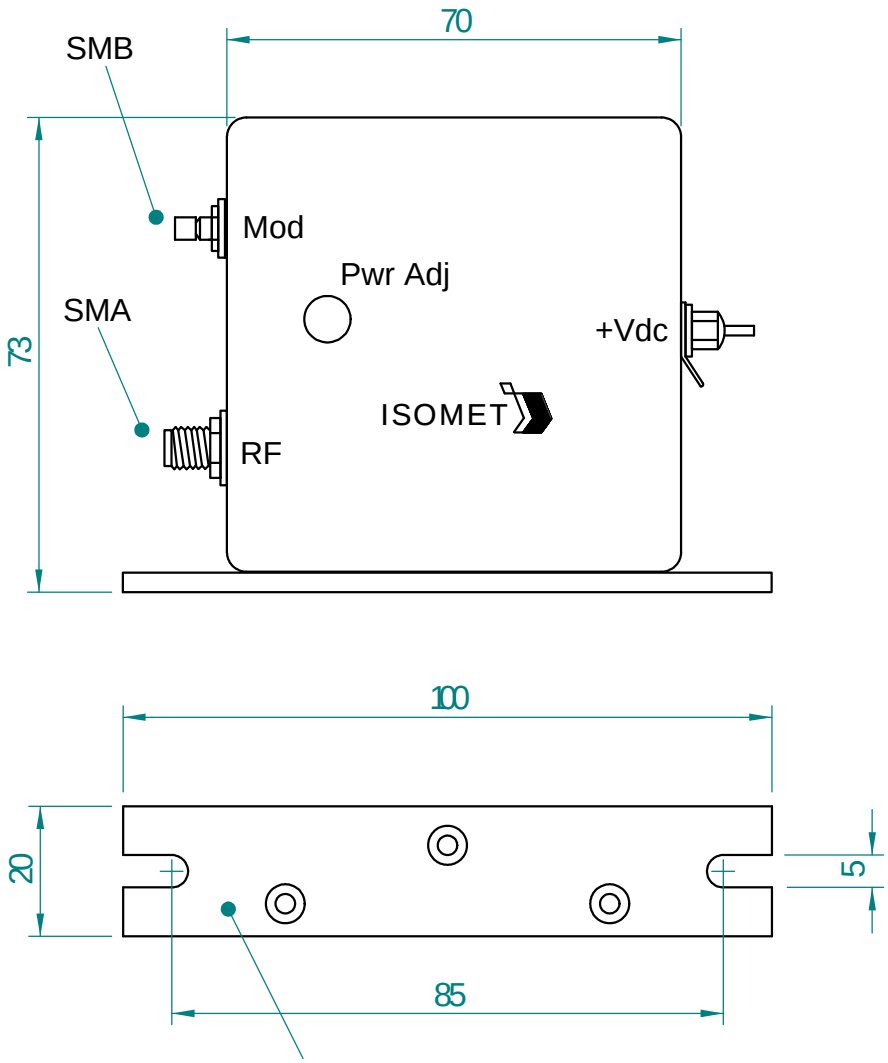
OUTLINE DRAWING



Mounting Flange to Heatsink
Apply Thermal Compound
Max. Temp 70deg C

Dim'n : mm

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Quality Assured.
In-house: RF & Digital design
Software Development
OEM manufacture