

525C-x RF Driver



1106

The 525C series Digital Modulation Drivers are designed to operate with Isomet 200MHz high speed AO modulators and frequency shifters for digital (On:Off) control of the 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 60°C in temperature. The supply to the 525C-2 driver is internally regulated and thus will accept a wide DC power input range. The DC input is not internally regulated on C-L variant.

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:	± 0.01%
Frequency Stability:	± 0.01%
DC Power Input: 525C-L	+9Vdc regulated to ± 1%, < 250mA
525C-2	+22 to +30Vdc regulated to ± 1%, < 500mA
Temperature Range:	0°C to 60°C ambient, temperature at mounting face must not exceed 70°C.
Mounting Orientation:	Any
Dimensions:	See Outline, reverse side.

PERFORMANCE

Model	Centre Frequency	Minimum Rise Time	RF Drive Power	Supply
525C-L	200MHz	3nsec	>0.45 W	+9V
525C-2	200MHz	3nsec	>2.0 W	+22 to +30V

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

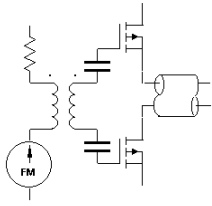
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Quality Assured.

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

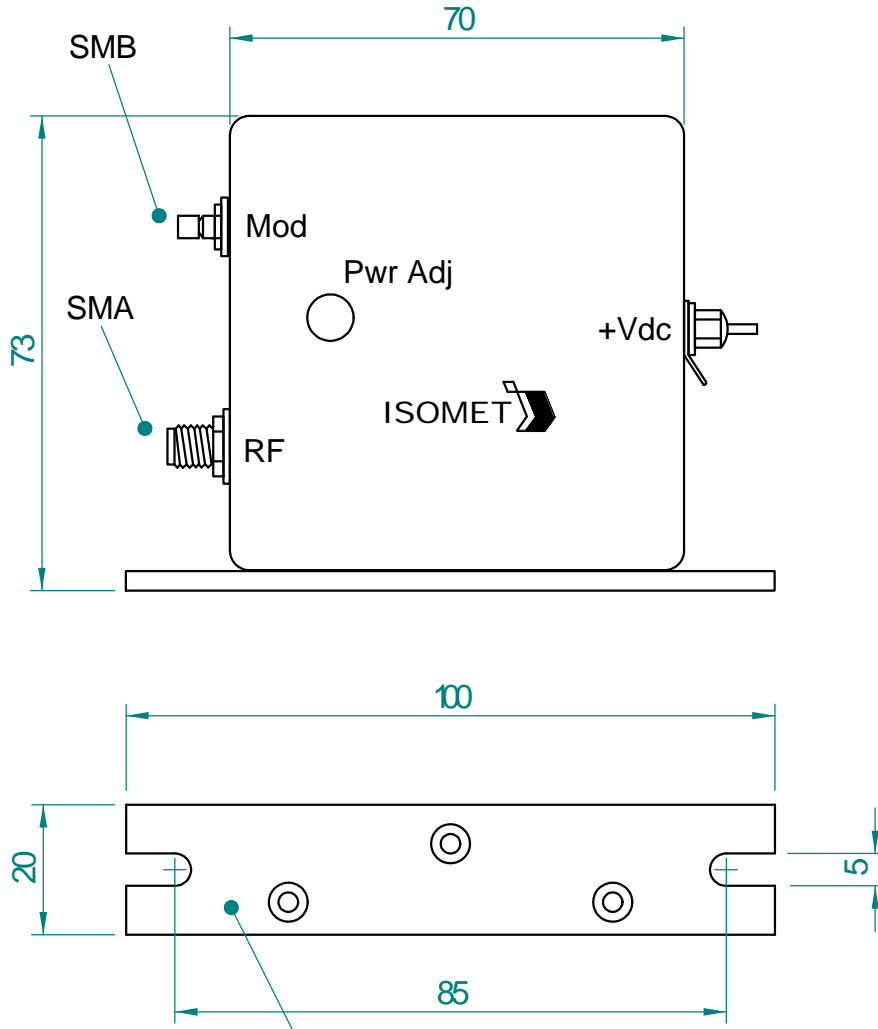


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OUTLINE DRAWING



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

Dimensions : mm

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