

525C-L,C-2

RF Driver



0916

The 525C series RF drivers are designed to operate with Isomet 200MHz high speed AO modulators for simple On:Off (digital) control of laser beam intensity.

The driver design comprises of a precision crystal oscillator, wideband RF mixer, and Class A power amplifier module. The external TTL compatible control input signal (Mod) is applied to the mixer. This generates in a double sideband bi-level modulated signal at the 200MHz carrier frequency. A multi-turn potentiometer is provided to set the optimum output power level.

Efficient heat transfer from the driver requires that the mounting base be attached to an external heat sink or heat conducting surface. 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 (~20mA input current) |
| Frequency Accuracy: | ± 25ppm |
| Frequency Stability: | ± 25ppm |
| DC Power Input: 525C-L | +9Vdc / +12Vdc regulated to ± 1%, < 250mA |
| 525C-2 | +22V 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 | 5nsec | >0.7 W | +9V |
| 525C-L | 200MHz | 5nsec | >1.1 W | +12V |
| 525C-2 | 200MHz | 5nsec | >2.2 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**



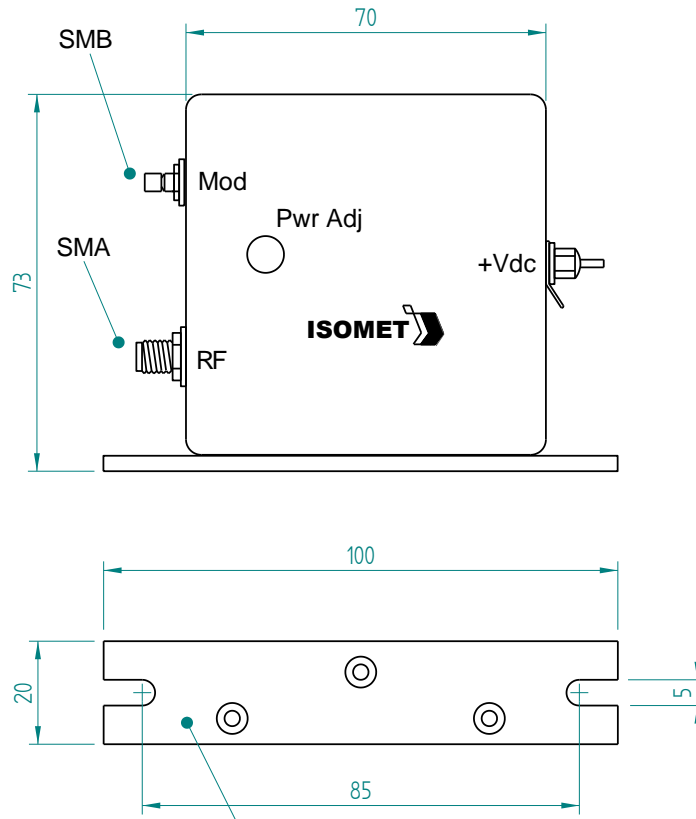
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OUTLINE DRAWING



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

Dimensions : mm

For proportional (analog) control, see 535C-x series.

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