

# 536C-1

## RF Driver



0407

The 536C-1 is an analog modulation driver designed to operate with Isomet 250MHz or 260MHz AO modulators and frequency shifters for the proportional (analog) control of laser beam intensity.

The driver design is based on a SAW resonator, a wideband mixer, and a RF Power amplifier. Under control of the video input signal, the mixer impresses the modulating video on the carrier amplitude. The resulting double sideband AM signal is subsequently amplified by the Class A MOSFET amplifier.

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 driver is internally regulated and thus accepts a wide DC power input range.

### SPECIFICATIONS

Output impedance:	50Ω Nominal
Load Mismatch VSWR:	2:1 Max
RF On-Off Ratio:	>37dB
Analogue Input:	0 - 1V for 100% depth of modulation 50 ohm input impedance
Frequency Accuracy:	± 0.003%
Frequency Stability:	± 0.003%
DC Power Input:	+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

<u>Centre Frequency</u>	<u>Minimum Rise Time</u>	<u>RF Drive Power</u>
250MHz*	4nsec	>1.2 W

\*(Compatible with 260MHz tuned AOM's. Please enquire if 260MHz frequency is required)

#### ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

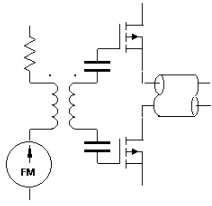
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

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

E-mail: [ISOMET@ISOMET.COM](mailto:ISOMET@ISOMET.COM) Web Page: [WWW.ISOMET.COM](http://WWW.ISOMET.COM)

Quality Assured.

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

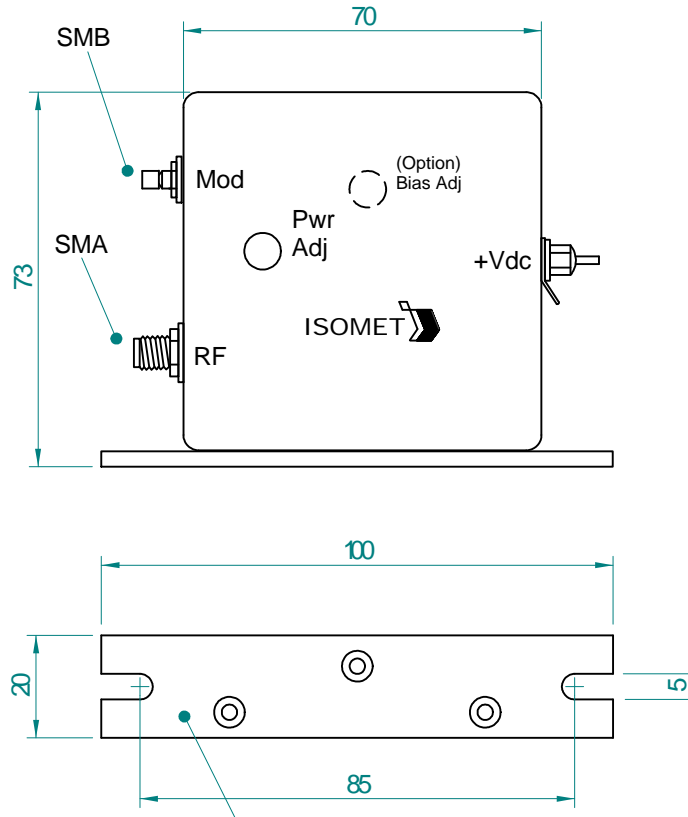


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## OUTLINE DRAWING



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

Dim'n : mm

### \* Options

### Add Suffix

Input BIAS	:	' -B '
0-5V modulation	:	' -V '
0-10V modulation	:	' -X '

(TTL compatible = 526C series)

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