

526C-1

RF Driver



0407

The 526C series Digital Modulation Drivers are designed to operate with Isomet 250MHz or 260MHz AO modulators and frequency shifters for the digital (On:Off) control of the 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
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:	+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

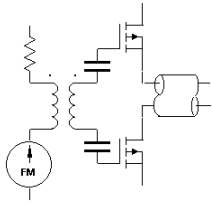
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

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

E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

Quality Assured.

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

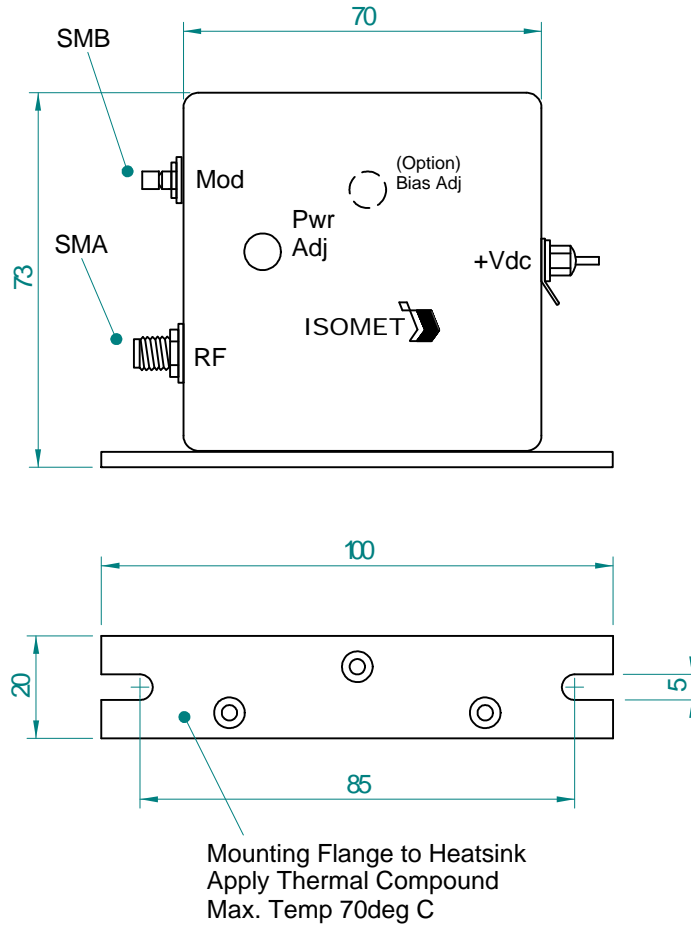


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OUTLINE DRAWING



Dim'n : mm

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