

532C-x Series

Analog Modulation RF Driver



0612

The 532C series Analog Modulation Drivers are designed to operate with Isomet 80MHz AO modulators and compact Q-switches for the proportional (analog) control of laser beam intensity.

These RF drivers include a crystal oscillator, a wideband balanced diode ring mixer and RF power amplifier. The mixer is used to vary the amplitude of the RF carrier according to the modulation input signal. The resulting AM signal is subsequently amplified by a Class A MOSFET amplifier.

Efficient heat transfer from the driver is required. The mounting base must be attached to an external heat sink not exceeding a temperature of 70°C. The supply to the 532C-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, C-4 and C-7 variants.

SPECIFICATIONS

Output impedance:	50Ω Nominal
Load Mismatch VSWR:	2:1 Max
RF On-Off Ratio:	>40dB
Analogue Input:	0 - 1V* for 100% depth of modulation 50 ohm input impedance
Frequency Accuracy:	± 0.01%
Frequency Stability:	± 0.01%
DC Power Input: 532C-L	+15Vdc regulated to ± 1%, < 400mA
532C-2	+22 to +30Vdc regulated to ± 1%, < 500mA
532C-4	+24/+28Vdc regulated to ± 1%, < 500mA
532C-7	+24/+28Vdc regulated to ± 1%, < 800mA
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

Model	Centre Frequency	Minimum Rise Time	RF Drive Power	Supply
532C-L	80MHz	6nsec	>1.7 W	+15V
532C-2	80MHz	6nsec	>2.8 W	+22 to +30V
532C-4	80MHz	6nsec	>4.0 W >3.5 W	+28V +24V
532C-7	80MHz	6nsec	>7.0 W	+24V

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

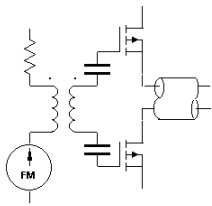
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Quality Assured.

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



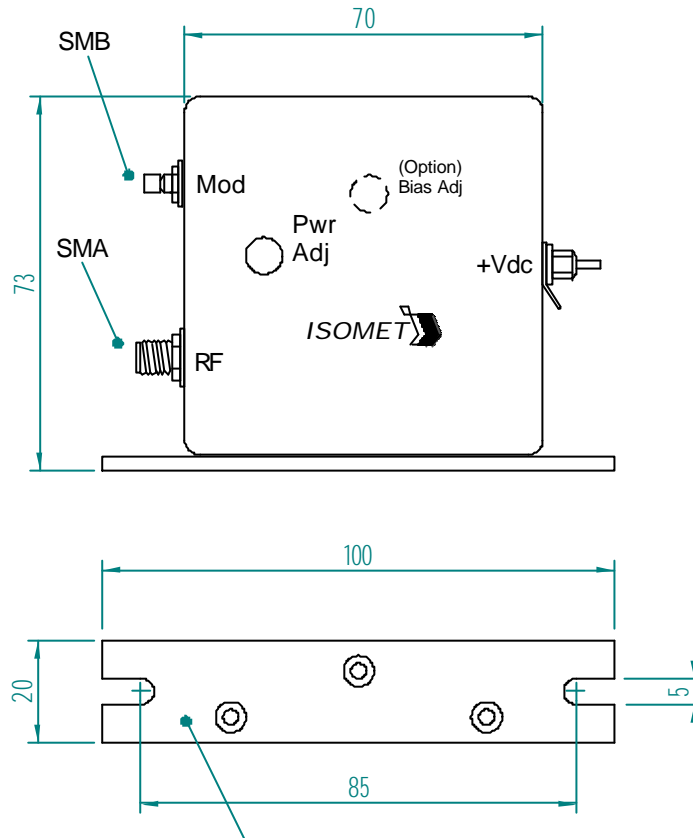
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OUTLINE DRAWING



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

Dim'n : mm

* Options

Add Suffix

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

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