

# 500C-x Series RF Amplifier



1009

The 500C-x series are a range of general purpose amplifiers designed to operate with Isomet AO devices. These are ideal for applications where the user has his/her own frequency source.

The amplifier includes an analog modulation input for the dynamic control of the RF output amplitude. This feature can be over-riden using the BIAS control potentiometer. The maximum output level is adjustable and can be preset using the multi-turn PWR ADJ potentiometer.

Efficient heat transfer from the driver requires that the mounting base be attached to an external heat sink not exceeding 60°C in temperature.

## SPECIFICATIONS

Input / Output impedance:	50Ω Nominal
Load Mismatch VSWR:	2:1 Max
RF Input Level:	3 dBm
RF Gain :	> 36dB, adjustable
Analogue Input:	0 - 1V * for 100% depth of modulation 50 ohm input impedance
DC Power Input :	+24 to +28Vdc regulated to ± 1%, <700mA -L type +12 to +15Vdc regulated to ± 1%, <500mA
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	3dB Bandwidth	Power Options (x)
501C - x	30 - 60MHz	-L, -3, -4, -7
502C - x	60 - 100MHz	-L, -2, -4 -7
503C - x	80 - 130MHz	-L, -2, -5
504C - x	125 - 175MHz	-L, -4
505C - x	150 - 250MHz	-L, -2

Power Option	Maximum RF Power
x = L	> 1.7W (+15Vdc supply )
2	> 2.0W
3	> 2.7W
4	> 4.0W
5	> 5.0W
7	> 6.5W

### ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

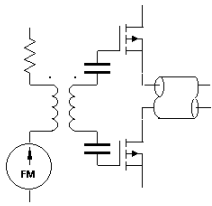
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Quality Assured.

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

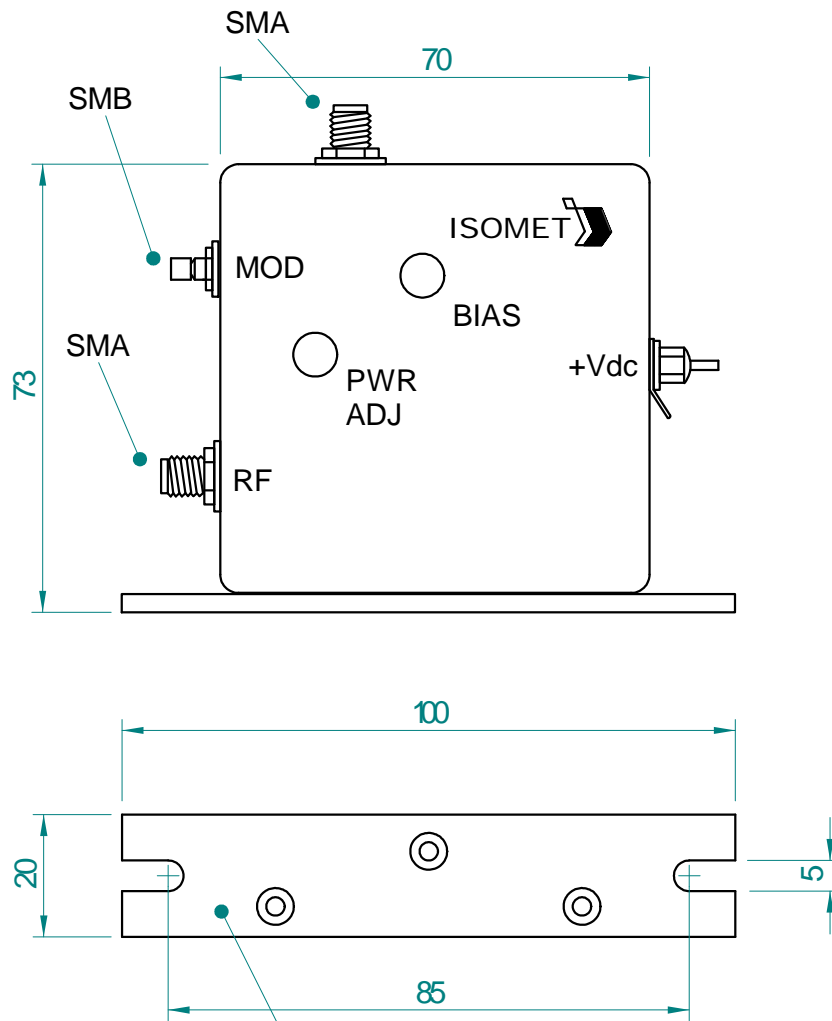


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## OUTLINE DRAWING



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

Dim'n : mm

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