

### RFA0110-1-20

## **RF Amplifier**



0718

The RFA0110-1 contains a class-A solid-state RF amplifier and is designed to operate with *ISOMET* frequency synthesizers. The output will deliver up to 20.0 Watts power across a frequency bandwidth of 90 to 130 MHz

The amplifier requires up to 0dBm (1mW) RF input at the desired output frequency. There is no gain adjustment. The RF power and amplitude modulation are determined by the input source. The design includes over temperature shut-down.

The driver base is water cooled.

### **SPECIFICATIONS**

Power Out: 20 Watts Maximum CW into 50Ω

Load VSWR: < 2.5:1 for best results

Output RF Power Variation vs. Freq': ≤ 1 dB over specified bandwidth

Spurious Outputs: Harmonics > 20dB below fundamental

Bandwidth 90-130MHz

RF input: 3dBm max

Gain: > 40dB

Input Impedance: 50 ohm (nominal)

RF Amplitude rise/fall time < 50nsec typical (input dependent)

DC Power Input: +24V to  $28Vdc^*$  at <3A regulated to  $\pm$  0.25%

Temperature Range: 0°C to 60°C ambient temperature.

Mounting face must not exceed 70°C.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

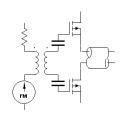
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Quality Assured. In-house: RF & Digital design Software Development OEM manufacture

<sup>\* +28</sup>Vdc supply will give increased maximum RF power

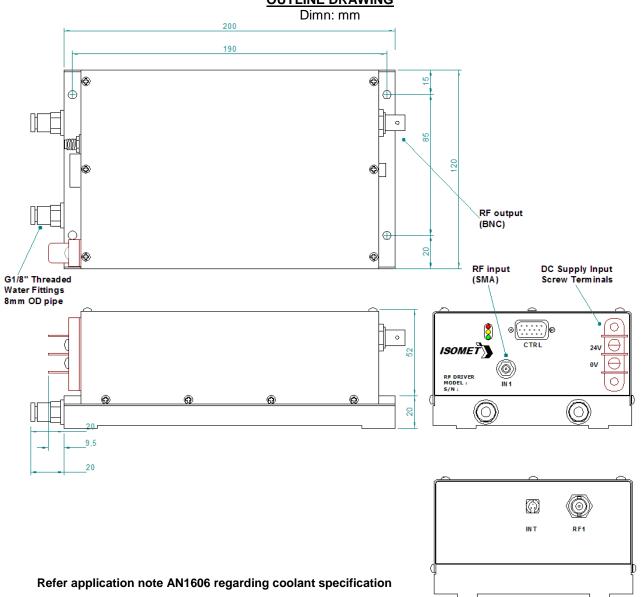


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### **OUTLINE DRAWING**



**Options –x,** multiple combinations possible:

- BR : Brass water cooled heatsink (water fittings on RF output face)

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