

RFJ080-1-25

ISOMET

RF Driver / Amplifier

2822

The RFJ080-1-25 is a combined 80 MHz oscillator and power amplifier suitable for driving Isomet acoustooptic modulators requiring high peak powers for duty cycled operation. This driver features both digital gate and analog modulation inputs for the control of the RF amplitude. Protection includes an internal over temperature sensor, and a 'Tranzorb' over voltage diode on the DC supply input. An external interlock (or RF enable) input is provided.

The driver will operate from a +24V to +28Vdc supply. LED's indicate the status of the thermal interlocks, DC supply and the RF power activity. The RF output power limit is adjusted by means of a pre-set potentiometer.

The amplifier is conduction cooled through the base and must be mounted to heat conducting surface.

SPECIFICATION

Power Output : 28 Watts Max CW (28V supply)

25 Watts Max. CW (24V supply)

Load Impedance : 50Ω

Harmonic Distortion : >20dB below fundamental Mismatch Tolerance : Driver will not oscillate

Centre Frequency : 80.0 MHz
Frequency stability : ± 25ppm
Frequency accuracy : ± 25ppm

Modulation Control Voltage

Digital : TTL compatible (> 2.7V, RF active)

SMA connector, 5V maximum

Analog : 0.0 to 10.0V, 3Kohm i/p impedance (nominal)

SMA connector, 12V maximum

RF ON to OFF Ratio : 40dB below full power

Output Switching Speed : < 50/30 ns Rise/Fall, 0 to 20 Watts

Interlock : Open OFF, closed ON

(Sink 20mA at Vdc)

Binder 3-way connector, pin1 – pin2

Temperature Range : 0° to 50°C, Thermal Shutdown Interlock

DC Power Input : Filtered screw terminals

Power Supply, Vdc : +24V to +28Vdc, 1.0% regulation, < 4A

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.

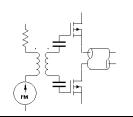
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Quality Assured.

In-house: RF & Digital design Software Development

OEM manufacture



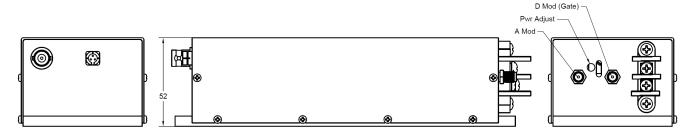
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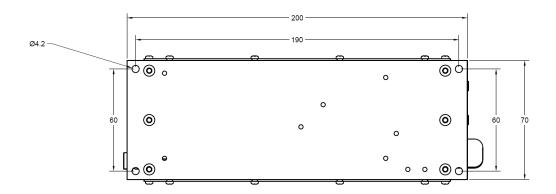
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OUTLINE DRAWING





OPTIONS

-A : Analog modulation only

-D : Digital modulation only-V : 0 - 5V analog modulation range

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E-mail: ISOMET@ ISOMET.COM Web Page: WWW.ISOMET.COM Quality Assured. In-house: RF & Digital design **Software Development OEM** manufacture