

RFJ080-1-15

ISOMET

RF Driver / Amplifier

0420

The RFJ080-1-15 is a combined 80 MHz oscillator and power amplifier suitable for driving Isomet acousto-optic modulators such as the M1377-aQ80 series. 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 : 17 Watts Max CW (28V supply)

15 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 10 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, < 3A

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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

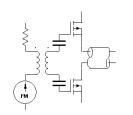
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Quality Assured.

In-house: RF & Digital design Software Development

OEM manufacture



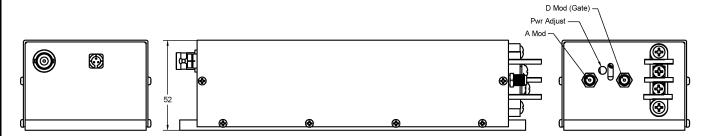
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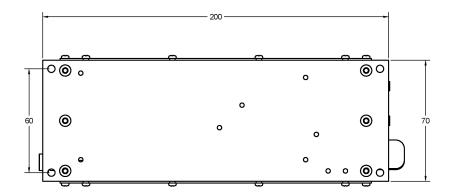
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OUTLINE DRAWING





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