

RFJ040-1-15

RF Driver / Amplifier



2822

The RFJ040-1-15 is a combined 40 MHz oscillator and power amplifier suitable for driving Isomet acoustooptic modulators such as the M1377-aQ40 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 Harmonic Distortion Mismatch Tolerance		:	50Ω >20dB below fundamental Driver will not oscillate
Centre Frequency Frequency stability Frequency accuracy		:	40.0 MHz ± 25ppm ± 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 Output Switching Speed		:	40dB below full power < 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 Power Supply, Vdc		:	Filtered screw terminals +24V to +28Vdc, 1.0% regulation, < 3A

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICEISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.Tel: (703) 321 8301Fax: (703) 321 8546E-mail: ISOMET@ ISOMET.COMWeb Page: WWW.ISOMET.COM

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