

RFJ041-1-25

RF Driver / Amplifier



2822

The RFJ040-1-25 is a combined 40.68 MHz oscillator and power amplifier suitable for driving acoustooptic modulators and Q-switches. This driver features both digital 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 28 Watts Max CW (28V supply) Power Output 24 Watts Max. CW (24V supply) Load Impedance 50Ω Harmonic Distortion >20dB below fundamental Mismatch Tolerance Driver will not oscillate 40.68 MHz Centre Frequency 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 < 50/30 ns Rise/Fall, 0 to 20 Watts **Output Switching Speed** Interlock Open OFF, closed ON (Sink 20mA at Vdc) Binder 3-way connector, pin1 – pin2 0° to 50°C, Thermal Shutdown Interlock **Temperature Range DC Power Input** Filtered screw terminals Power Supply, Vdc +24V to +28Vdc, 1.0% regulation, < 4A

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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