

RFJ041-1-25

RF Driver / Amplifier



0420

The RFJ040-1-25 is a combined 40 MHz oscillator and power amplifier suitable for driving acousto-optic 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.

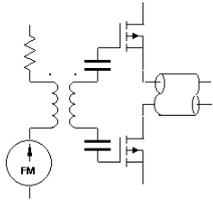
The amplifier is conduction cooled through the base and must be mounted to heat conducting surface.

SPECIFICATION

Power Output	:	28 Watts Max CW (28V supply) 24 Watts Max. CW (24V supply)	
Load Impedance	:	50Ω	
Harmonic Distortion	:	>20dB below fundamental	
Mismatch Tolerance	:	Driver will not oscillate	
Centre Frequency	:	40.68 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	

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



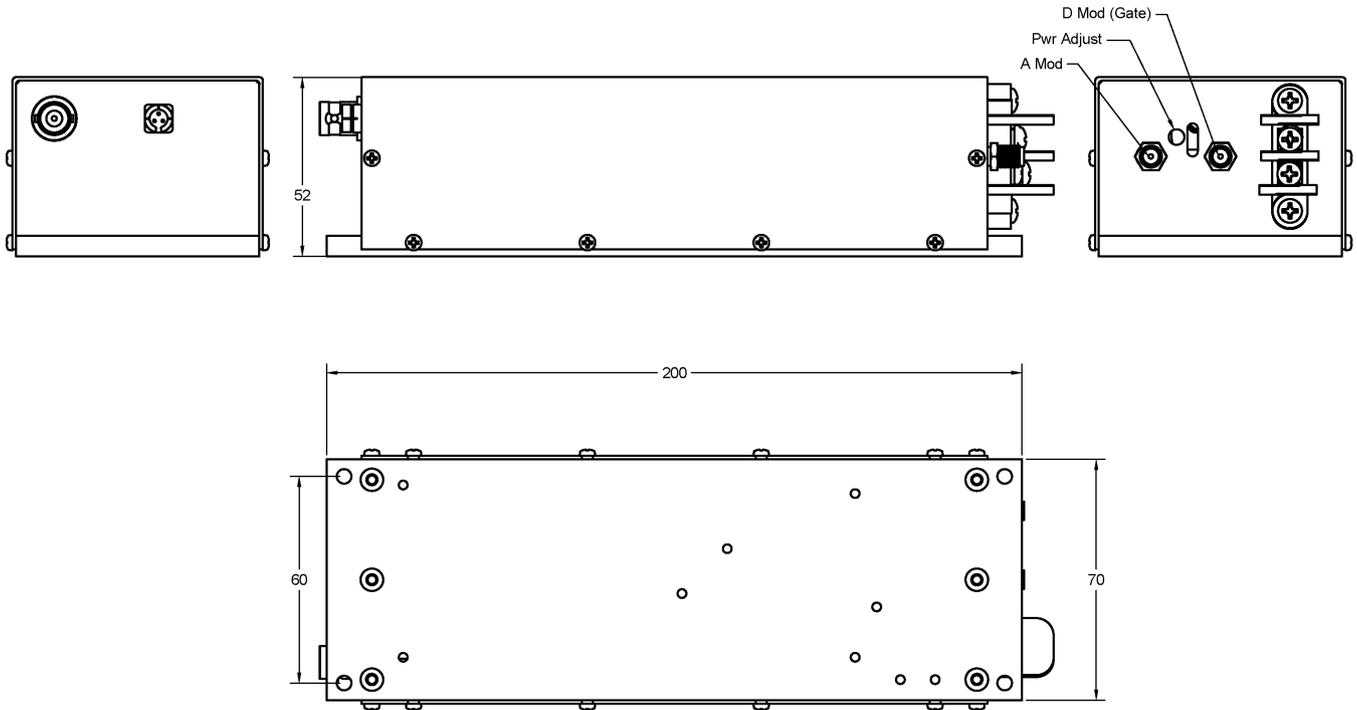
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OUTLINE DRAWING



OPTIONS

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

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