

RFA2120-1-15

RF Driver / Amplifier



0821

The RFA2120-1 is a combined 120 MHz oscillator and power amplifier suitable for driving UV acousto-optic modulators such as the M1340. 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 RF power output. The RF output power limit is adjusted by means of a pre-set potentiometer.

The amplifier includes an integral water cooled base.

SPECIFICATION

Power Output	:	> 20 Watts Max CW (28V supply) > 15 Watts Max. CW (24V supply)
Load Impedance Harmonic Distortion Mismatch Tolerance	:	50Ω >25dB below fundamental Driver will not oscillate
Centre Frequency Frequency stability Frequency accuracy	:	120.0 MHz ± 25ppm ± 25ppm
Modulation Control Voltage Digital Analog	:	TTL compatible (> 2.7V, RF active) 0.0 to 10.0V, 3Kohm i/p impedance (nominal)
RF ON to OFF Ratio Output Switching Speed	:	> 40dB < 40ns rise / < 40ns fall, 0 to 10 Watts
Interlock	:	Open OFF, closed ON Sink 20mA at Vdc
Temperature Range	:	0º to 50ºC, Thermal Shutdown Interlock
Control signals - Amplitude Control, Digital Amplitude Control, Analog Interlock enable (connect to AO) Interlock monitor, 15V logic		9 pin 'D' type +sig pn6, -rtn pn7 +sig pn8, -rtn pn9 +sig pn4, -rtn pn5 (closed = on) +sig pn1, -rtn pn2 (+15V = OK, 0V = fault)
DC Power Input Power Supply, Vdc	:	Filtered screw terminal +24V to +28Vdc, 0.25% regulation, < 3A

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

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