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RFA261

RF Driver / Amplifier



1014

The RFA261 is a combined 60 MHz oscillator and power amplifier suitable for driving Isomet acousto-optic modulators. 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 RFA261 will operate from a +24V to +28Vdc supply. LED's indicate the status of the thermal interlocks, DC supply and RF power. The RF output power limit is adjusted by means of a pre-set potentiometer.

The amplifier includes an integral water cooled base. The unit can be supplied with the coolant fittings located at the front (RFA261) or rear (RFA261-R). See options.

SPECIFICATION

Power Output	:	> 70 Watts Max CW (28V supply)> 60 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	:	60.0 MHz ± 25ppm ± 25ppm
Modulation Control Voltage Digital Analog	:	TTL compatible (> 2.7V, RF O/P=on) 0.0 to 10.0V, 3Kohm i/p impedance (nominal)
RF ON to OFF Ratio Output Switching Speed	:	40dB below full power < 200ns rise / < 50ns fall, 0 to 50 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, TTL compatible		9 pin 'D' type +sig pn6, -rtn pn7 +sig pn8, -rtn pn9 +sig pn4, -rtn pn5 (closed = on) +sig pn1, -rtn pn2 (+5V = OK, 0V = fault)
DC Power Input Power Supply, Vdc	:	Filtered screw terminal +24V to +28Vdc, 0.25% regulation, < 7A

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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