

RFA920T-nn-x

Tuneable RF Driver



1208

The Model RFA920T Series of Tuneable Deflector Drivers are class A solid-state RF source designed to drive ISOMET Acousto-Optic Scanners with up to 20.0 Watts total power across a nominal ± 1 octave bandwidth centered at a frequency of "nn" MHz (see table below)

The driver features a 0 to +10 volts control input to tune the output frequency and a 0 to +10 volt analog modulation input signal to control the amplitude of the RF output. Maximum gain is externally adjustable via a pre-set potentiometer. A water cooled option is available.

	<u>Freq</u>	<u>Options</u>	
RFA920T -	nn	-	x
60 – 100 MHz	80	F	Fan
90 – 130 MHz	110	B	BNC connector
		W	Water cooled

SPECIFICATIONS

Oscillator Type:	Varactor-tuned thin film hybrid
Power Out:	20 Watts Maximum CW into 50Ω
Load VSWR:	< 2.5:1 for best results
Output RF Power Variation vs.Freq:	≤ 1 dB
Spurious Outputs:	Harmonics > 20dB below fundamental
Tuning Range:	see table
Tuning Voltage (Vt):	0 to 10V for specified tuning range
Tuning Linearity:	< +/- 2.5% over specified tuning range
Tuning Voltage Impedance:	1Kohm (nominal)
Tuning Slew Rate	> 10 MHz/μs
Residual FM:	< 10 KHz peak-to-peak
Frequency Stability:	±0.25%
Video Input Voltage (MOD):-	
Analogue:	0-10V for 100% depth of modulation, DC coupled
Input Impedance:	50 ohm (nominal)
RF ON-OFF Ratio:	> 37 dB
RF Amplitude rise/fall time	< 10nsec
DC Power Input:	+24Vdc at < 2.5A regulated to ± 0.25%
Temperature Range:	0°C to 60°C ambient, temperature of heatsink must not exceed 70°C.
Mounting Orientation:	Any

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

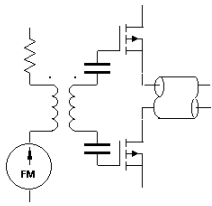
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Quality Assured.

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



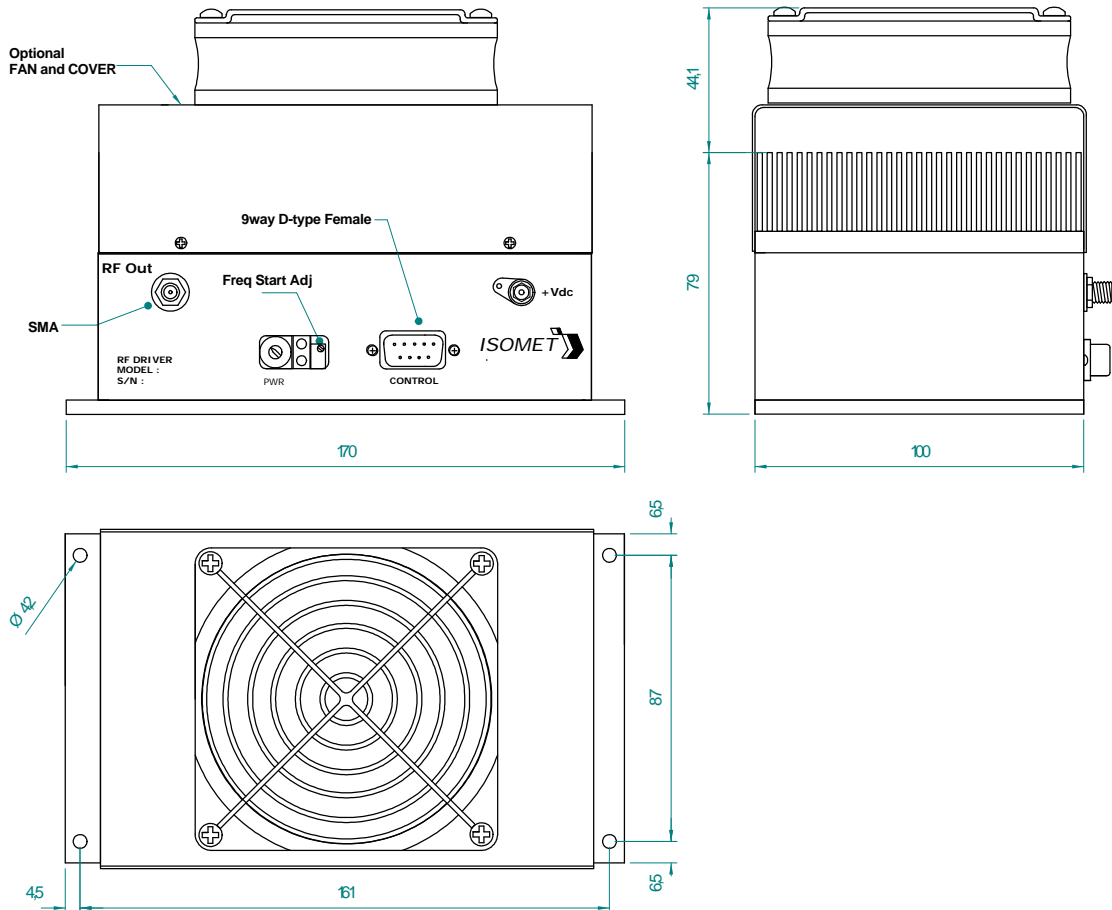
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OUTLINE DRAWING



Control signals	-	:	9 pin 'D' type
Tuning Voltage		:	+sig pn1, -rtn pn6
Amplitude Control		:	+sig pn8, -rtn pn3
Enable/Interlock Control		:	+sig pn9, -rtn pn4
Interlock monitor		:	+sig pn7, -sig pn2

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