

RF2/RF3/RF5-xxxT-1(-2)-# **ISOME**



RF Tuneable Driver

(Preliminary)

1125

The RF2, RF3 and RF5- series single output, frequency tuneable RF drivers are compatible with Isomet AO deflectors and frequency shifters. These drivers accept a tuning voltage between approximately 0 to +10 volts to control the frequency and up to two modulation signals to control the amplitude. The start frequency, corresponding to a tuning voltage of 0.0 volts, is defined by the frequency offset potentiometer (FOS). This also permits manual adjustment of the frequency. A secondary fixed amplitude low level frequency monitor output (Fmon) is provided for monitoring or feedback purposes.

Specifications

Oscillator Type: Varactor-tuned thin film hybrid

Amplifier Type: Broadband Class A

Output RF Power 'T-1: \geq 1 Watt 'T-2: \geq 2 Watt

Output Impedance: 50Ω nominal

Load VSWR: < 2.5:1 for best results

Frequency monitor output (Fmon): 300mVpp nominal, 50ohm

RF Power Variation vs. Frequency: ≤1 dB

Spurious Outputs: Harmonics >20dB below fundamental Tuning Voltage (Vt): 0 to 10V for specified tuning range Tuning Linearity: <+/- 2.5% over specified tuning range

Tuning Voltage Impedance: 1 Kohm (nominal)
Tuning Slew Rate > 10 MHz/us

Residual FM: < 10 KHz peak-to-peak

Frequency Stability: ±0.25%

Model		Power	Frequency range	Specified Range
	xxxT			
RF2				
(or)	- 200T	-2	145-260 MHz	150-250 MHz
RF3	- 300T	-2	190-360 MHz	200-300 MHz
(or)	- 350T	-1	220-500 MHz	250-450 MHz
RF5				

Factory fitted modulation options:

Active modulation	Model	Signal Input	ON-OFF ratio
Digital (DMOD)	RF 2 -	5V logic compatable	>37dBc
Analog (AMOD)	RF 3 -	0 - 1V *, 50ohm	>37dBc
Dual	RF 5 -	Both the above (SMB #2 fitted)	>48dBc

DC Power Input: +24Vdc or +28Vdc at < 500 mA regulated to $\pm 0.25\%$ Temperature Range: 0° C to 60° C ambient, temperature must not exceed 70° C

Order example: RF3-200T-2-R analog modulation,150-250MHz, vertical mount *

*See options table

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.

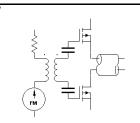
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Quality Assured.

In-house: RF & Digital design Software Development

OEM manufacture



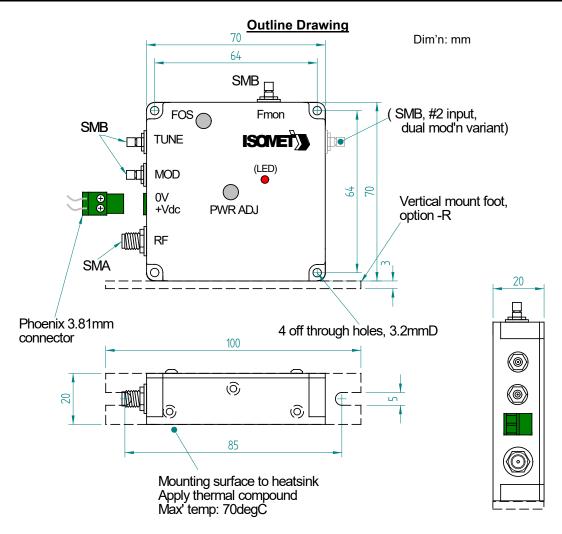
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Mounting

Any orientation. The mounting surface must be attached to an external heat sink. Efficient heat transfer from the driver is required.

Options:	Add suffix'es (-#)
Heatsink with fan	'-F '
Vertical mount foot	' -R '
0-5V analog modulation	' -V '
0-10V analog modulation	' -X '

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