

RF2/RF3/RF5-xxT-2(-4) -



RF Tuneable Driver

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:	≥ 2Watt (-2) or 4Watt (-4)
Output Impedance:	50Ω nominal
Load VSWR:	< 2.5:1 for best results
Frequency monitor output (Fmon):	600mVpp 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:	<+/- 1.5% over specified tuning range
Tuning Voltage Impedance:	1 Kohm (nominal)
Tuning Slew Rate	> 10 MHz/μs
Residual FM:	< 10 KHz peak-to-peak
Frequency Stability:	±0.25%

Model	Power	Frequency range	Specified Range
RF2	-2 (or) -4	18-36 MHz	19-35 MHz
(or)		28-54 MHz	30-50 MHz
RF3		55-110 MHz	60-100 MHz
(or)		75-150 MHz	80-140 MHz
RF5		100-200 MHz	125-175 MHz

Factory fitted modulation options:

Active modulation	Model	Signal Input	ON-OFF ratio
Digital (DMOD)	RF2 -	5V logic compatible	>37dBc
Analog (AMOD)	RF3 -	0 - 1V *, 50ohm	>37dBc
Dual	RF5 -	Both the above (SMB #2 fitted)	>48dBc

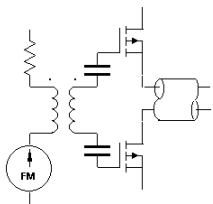
DC Power Input:	+24Vdc or +28Vdc at < 500 mA regulated to ± 0.25%
Temperature Range:	0°C to 60°C ambient, temperature must not exceed 70°C

Order example: RF3-80T-4-X analog modulation, 60-100MHz, 0-10V modulation *

*See options table

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
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Quality Assured.
 In-house: RF & Digital design
 Software Development
 OEM manufacture



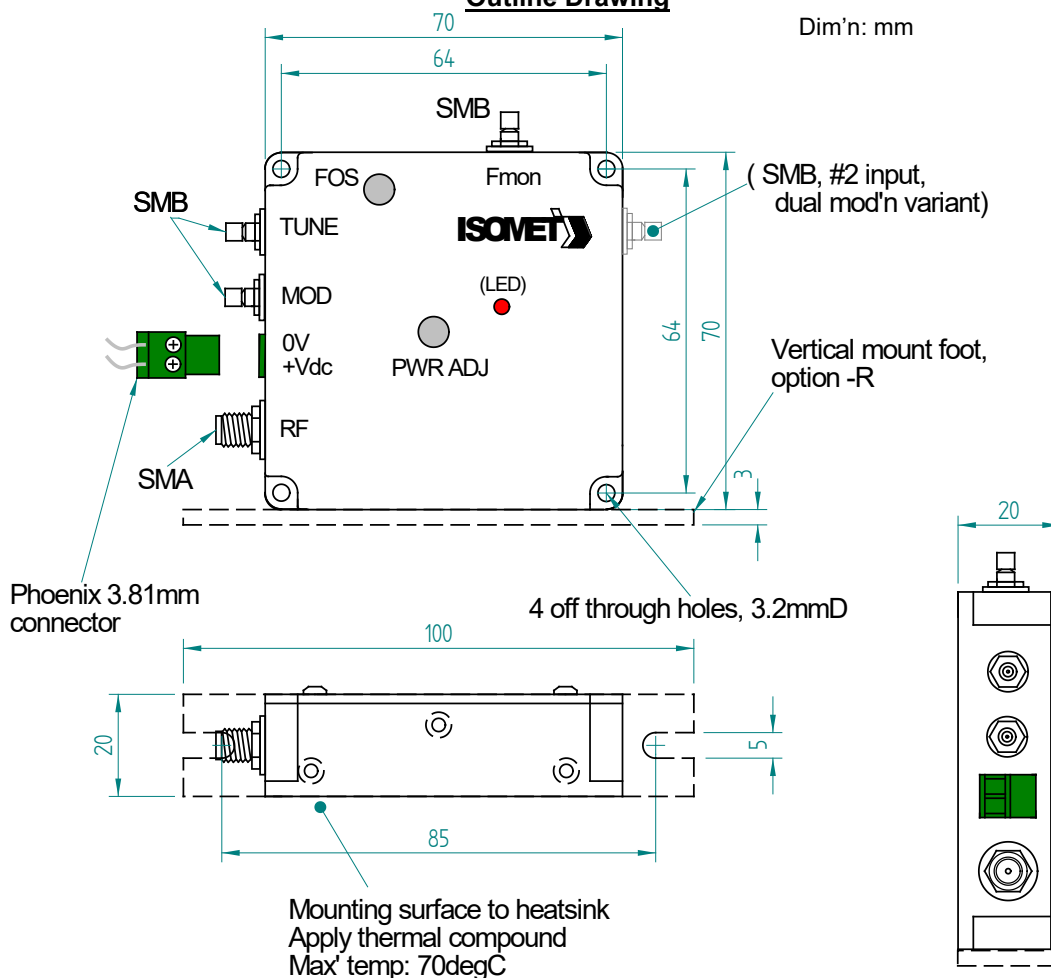
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Outline Drawing



Mounting

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

Options:

Heatsink with fan
Vertical mount foot
0-5V analog modulation
0-10V analog modulation

Add suffix'es (- #)

'-F'
'-R'
'-V'
'-X'

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