

620c/630c -350

ISOME

RF Tuneable Driver

0508

The 630c-350 Modulator/Deflector Driver, is a modular, swept-frequency RF power source specifically designed to operate with Isomet acousto-optic devices such as the 1260-1044. The driver accepts a tuning voltage between approximately +0 volts and +10 volts and provides an RF output to the acousto-optic deflector at the tuned frequency. The driver also accepts a video input signal to control the amplitude of the RF output. The start frequency corresponding to a tuning voltage of 0.0 volts is defined by the frequency offset potentiometer (FRQ OS). This permits adjustment of the start frequency from approx 220-300MHz. A secondary low level output signal is provided at the tuned operating frequency. This can be used for monitoring or feedback purposes.

SPECIFICATIONS

Oscillator Type: Varactor-tuned thin film hybrid

Amplifier Type: Broadband Class A

Output RF Power: > 0.7 Watt Output Impedance: 50Ω nominal

Load VSWR: < 2.5:1 for best results

Frequency monitor output (FMON): 50mV pp, 50 ohm

RF Power Variation vs.Frequency: < +/- 1dB

Spurious Outputs: Harmonics > 20dB below fundamental

Tuning Range: 220 to 500MHz Maximum 250 to 450MHz Specified

Tuning Voltage (Vt): 0 to 10V for specified tuning range Tuning Linearity: <+/- 2.0% over specified tuning range

Tuning Voltage Impedance: 1 Kohm (nominal) Tuning Slew Rate $> 10 \text{ MHz/}\mu\text{s}$

Residual FM: < 10 KHz peak-to-peak

Frequency Stability: ±0.25%

Video Input Voltage (MOD):-

(630C) Analogue option: 0-1V for 100% depth of modulation, DC coupled

(620C) Digital option: TTL line driver compatible, positive logic

Input Impedance: 50Ω source RF On-Off Ratio: > 30 dB

DC Power Input: +28Vdc (or +24Vdc) at < 600 mA regulated to \pm 0.25%

Temperature Range: 0°C to 60°C ambient, temperature at

mounting face must not exceed 70°C

Mounting Orientation: Any

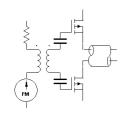
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E-mail: ISOMET@ ISOMET.COM Web Page: WWW.ISOMET.COM Quality Assured.

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



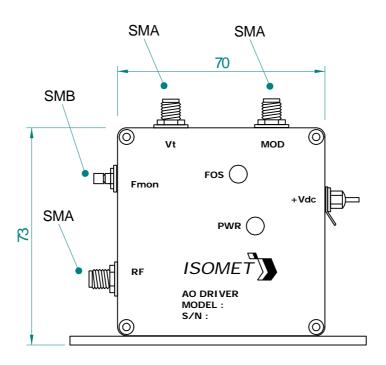
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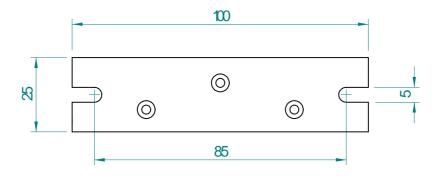
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OUTLINE DRAWING





Dim'n: mm

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