

The 537C-1 is an analog modulation driver designed to operate with Isomet 350MHz AO modulators for high speed control of laser beam intensity.

The driver design is based on a SAW resonator, a wideband mixer, and a RF Power amplifier. Under control of the video input signal, the mixer impresses the modulating video on the carrier amplitude. The resulting double sideband AM signal is subsequently amplified by the Class A MOSFET amplifier.

Efficient heat transfer from the driver requires that the mounting base be attached to an external heat sink not exceeding 60°C in temperature. The driver is internally regulated and thus accepts a wide DC power input range.

SPECIFICATIONS		
Output impedance: Load Mismatch VSWR: RF On-Off Ratio:	50Ω Nominal 2:1 Max >40dB	
Analogue Input:	0 - 1V for 100% depth of modulation 50 ohm input impedance	
Frequency Accuracy: Frequency Stability:	± 0.003% ± 0.003%	
DC Power Input:	+22 to +30Vdc regulated to $\pm$ 1% 400mA	
Temperature Range:	0°C to 60°C ambient, temperature at mounting face must not exceed 60°C.	
Mounting Orientation: Dimensions:	Any See Outline, reverse side.	
PERFORMANCE		

Centre	Minimum	RF Drive
<u>Frequency</u>	<u>Rise Time</u>	<u>Power</u>
350MHz	2nsec	>1.5 W

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA. Fax: (703) 321 8546 Tel: (703) 321 8301 E-mail: ISOMET@ ISOMET.COM Web Page: WWW.ISOMET.COM Quality Assured. In-house: RF & Digital design Software Development **OEM** manufacture

