

# DA134-p-xxx



## RF Amplifier

(Phase Delayed – Dual Output, to suit LS110 AO Deflectors)

0106

The Model DA134 amplifier is a class A solid-state unit designed to drive the *ISOMET* LS110 series beam steered Acousto-Optic Scanner across the 30 to 150 MHz frequency band. The amplifier generates two 1.1 Watt outputs from a single RF input. This input is compatible with a 50 ohm signal source such as the *ISOMET* VCO200A high linearity, over stabilized VCO oscillator. A supplementary output provides a low level monitor output of the source drive frequency. An additional video modulation input provides high speed control of the RF amplitude. Maximum gain is externally adjustable via a pre-set potentiometer. A predefined internal delay line introduces a frequency dependent phase shift between the RF outputs. This phase shift is required to beam-steer the LS110 deflector, where  $p$ =phase factor and  $xxx$  = the AO scanner centre frequency. The amplifier is supplied as a module and requires a +24V or +28Vdc regulated power supply.

### SPECIFICATIONS

Power Out, Each Output (X1,X2 (DLY))	> 1.1 Watts CW into 50Ω
Phase delay between outputs:	AO Deflector dependant
Frequency Response:	30-150 MHz
Flatness:	± 0.5dB
Gain to Each Output:	36dB nominal
Input Signal (I/P):	-6dBm nominal
Input Impedance:	50Ω nominal
Output Impedance:	50Ω nominal
Input VSWR:	<2.0:1
Harmonic Distortion:	>25dB below fundamental
Rise/fall time:	<5ns
Video Input:	0-1V peak for 100% depth of modulation DC coupled (analogue) <i>or if specified -</i> TTL compatible positive logic (digital)
Power Supply Requirement (DC):	1.0A at +24V (or +28V)
Monitor Output:	100mV output at the input frequency
Maximum Allowable Case Temperature:	60°C
Minimum Allowable Case Temperature:	0°C

#### Model:

DA134-2-125  
DA134-2-100  
DA134-4-100  
DA134-3-100  
DA134-4-50

#### Compatible with :

LS110(HF)-442  
LS110-488, LS110-515  
LS110-633  
LS110A-532  
LS110A-830, LS110-1.06

#### ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

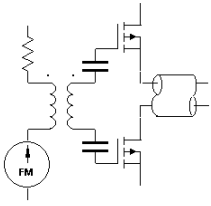
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

Tel: (703) 321 8301 Fax: (703) 321 8546

E-mail: [ISOMET@ISOMET.COM](mailto:ISOMET@ISOMET.COM) Web Page: [WWW.ISOMET.COM](http://WWW.ISOMET.COM)

#### Quality Assured.

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



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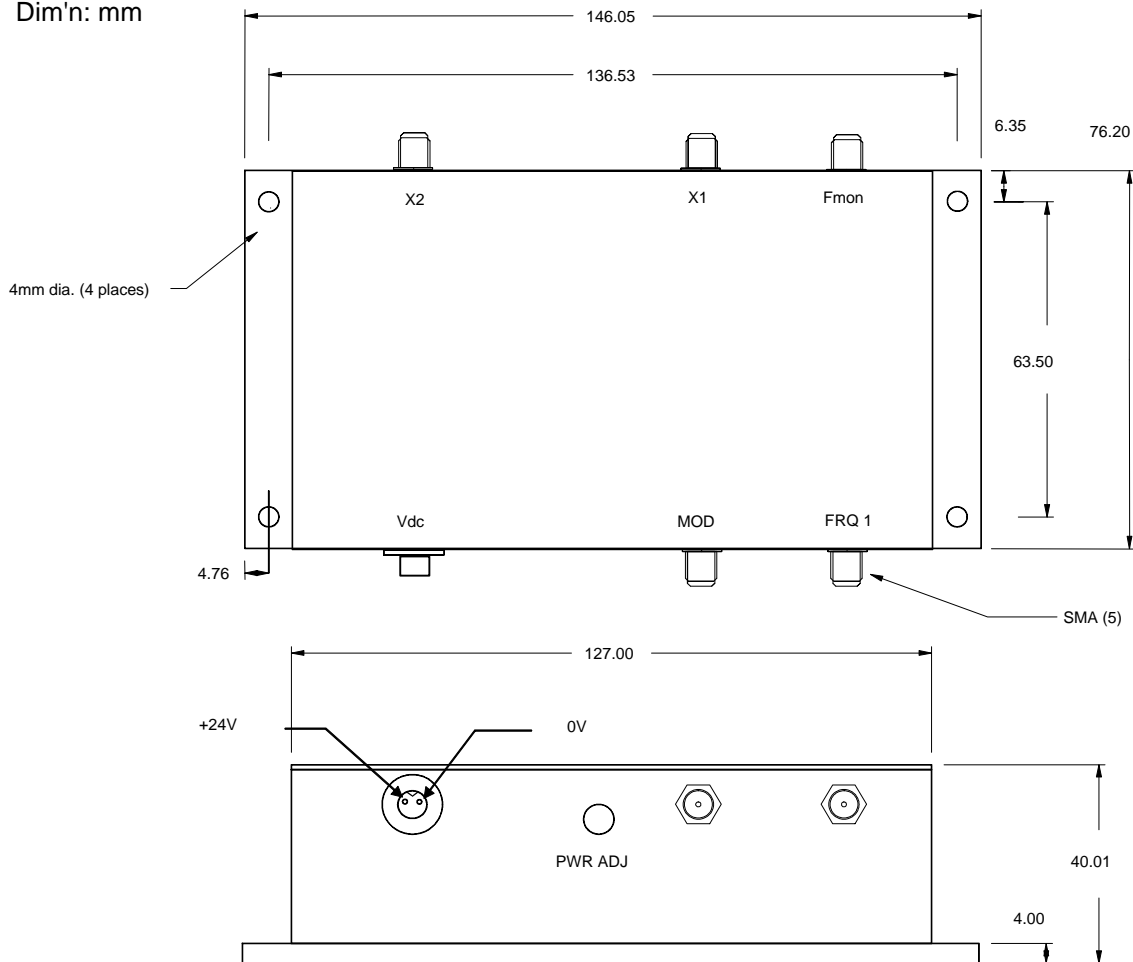
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### OUTLINE DRAWING

Dim'n: mm



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In-house: RF & Digital design

Software Development

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