

525F/535F/555-x-215

215MHz Modulator Driver



3424

These dual modulation drivers are compatible with Isomet 215MHz AO modulators and pulse pickers. These RF drivers include a precision crystal oscillator, wideband mixer, high speed RF switch and power amplifier stage. Separate modulation inputs enable simultaneous analog (level) and digital (On:Off) amplitude control. Drivers can be factory configured for either or both modulation input controls (see options).

Active modulation	Model	Modulation Input
Digital	525F-	5V logic compatible
Analog	535F-	0 - 1V *, 50ohm
Dual	555F-	both, as above

Efficient heat transfer from the driver is required. The mounting surface must be attached to an external heat sink. The DC input is not internally regulated.

SPECIFICATIONS

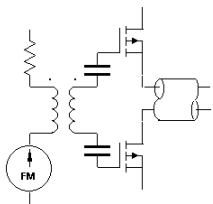
Output impedance:	50Ω Nominal
Load Mismatch VSWR:	2:1 Max
<u>Analogue Input:</u>	0 - 1V * for 100% depth of modulation
RF output analog mod'n On-Off Ratio:	>40dB
<u>Digital Input:</u>	> 2.7V = ON, < 0.8V = OFF
RF output digital mod'n On-Off Ratio:	>55dB
Frequency Accuracy:	± 25ppm
Frequency Stability:	± 25ppm
DC Power Input:	
5x5F-4-215	+22 to +30Vdc regulated to ± 1%, < 500mA
5x5F-6-215	+24/+28Vdc regulated to ± 1%, < 800mA
Temperature Range:	0°C to 70°C ambient, temperature at mounting face must not exceed 60°C.

PERFORMANCE

Model	Centre Frequency	Minimum Rise Time	RF Drive Power	Supply
5x5F-1-	215MHz	6nsec	>1.1W	+24V
5x5F-4-	215MHz	6nsec	>3.5W	+24V
5x5F-6-	215MHz	6nsec	>5.5W	+24V

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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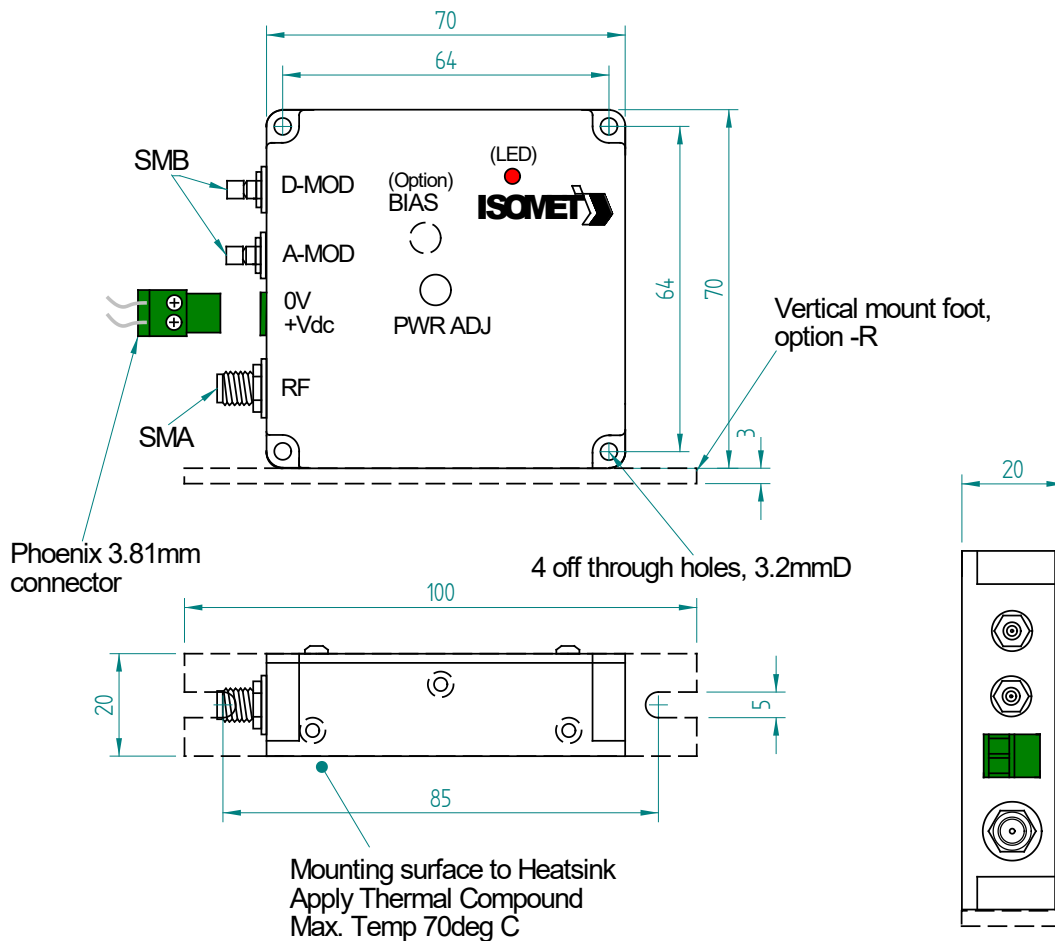
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OUTLINE DRAWING

Dim'n: mm



Options:

Add suffix'es (-x)

Modulation BIAS adj pot	'-B'
Heatsink with fan	'-F'
Vertical mount foot	'-R'
0-5V analog modulation	'-V'
0-10V analog modulation	'-X'

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