

## 525F/535F/555-x Series



## **200MHz Modulator Driver**

4821

The 5x5F series dual modulation drivers are compatible with Isomet 200MHz 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	5 <b>2</b> 5F-	5V logic compatable
Analog	5 <b>3</b> 5F-	0 - 1V *, 50ohm
Dual	5 <b>5</b> 5F-	both, as above

Efficient heat transfer from the driver is required. The mounting surface must be attached to an external heat sink. The supply to the 5x5F-2 driver is internally regulated and thus will accept a wide DC power input range. The DC input is not internally regulated on versions 5x5F-L, F-4

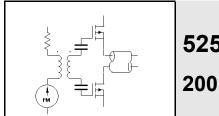
SPECIFICATIONS						
Output impedance:	50Ω Nominal					
Load Mismatch VSWR:	2:1 Max					
Analogue Input:	0 - 1V * for 100% depth of modulation					
RF output analog mod'n On-Off Ra	io: >40dB					
Digital Input:	> 2.7V = ON, < 0.8V = OFF					
RF output digital mod'n On-Off Rat	o: >55dB					
Frequency Accuracy:	± 25ppm					
Frequency Stability:	± 25ppm					
DC Power Input: 5x5F-L	+15Vdc regulated to $\pm$ 1%, < 400mA					
5x5F-2	+22 to +30Vdc regulated to $\pm$ 1%, < 500mA					
5x5F-4	+24/+28Vdc regulated to $\pm$ 1%, < 500mA					
Temperature Range:	0°C to 70°C ambient, temperature at					
	mounting face must not exceed 60°C.					

## PERFORMANCE

Model	Centre <u>Frequency</u>	Minimum <u>Rise Time</u>	RF Drive <u>Power</u>	Supply
5x5F-L	200MHz	6nsec	>1.1W	+15V
5x5F-2	200MHz	6nsec	>2.2W	+22 to +30V
5x5F-4	200MHz	6nsec	>3.5W	+24V

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



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