



## FREQUENCY SOURCES

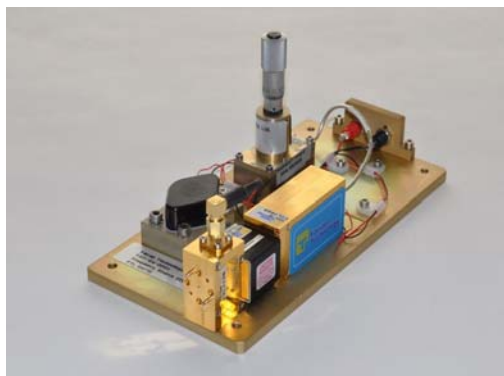
[FST-05-0002](#)

[FST-05-0001](#)

[FST-04-0001](#)

**Datasheet****Description**

The Farran Technology FST-04 frequency source modules consist of a micrometer-tuned free running DRO and a chain of solid state multipliers. The units operate based on a passive, tuner-less planar varactor tripler in the final multiplication stage and are capable of producing high signals in the 165 – 225 GHz frequency range. The final stage triplers can operate with external bias source or alternative self biasing mode.

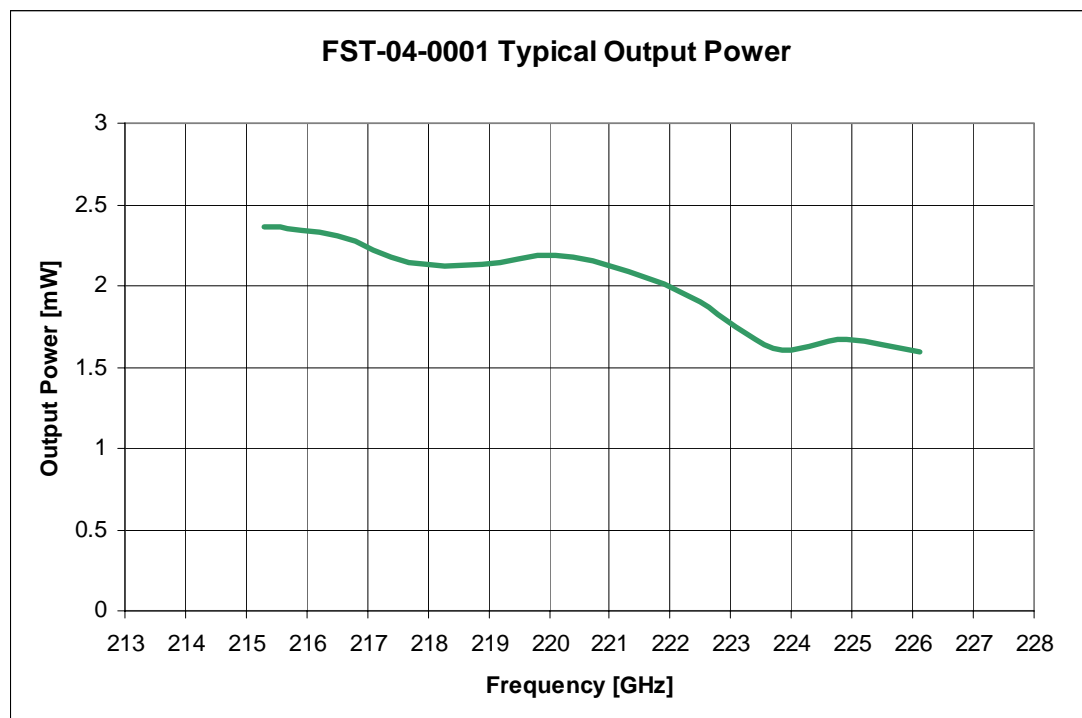
**Features**

- Planar varactor diodes
- Micrometer driven frequency tuning
- High output power

**Applications**

- Mm-Wave instrumentation
- Communication systems
- Frequency sources

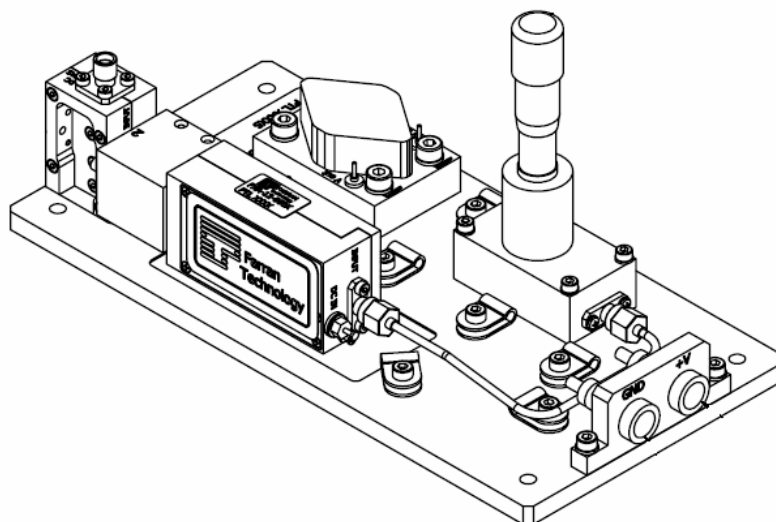
Specification	Unit	Min	Typ	Max
Output Frequency	GHz	215		225
RF Output Power	GHz	1	2	
Harmonic Level	dBc	-20		
RF Out VSWR		<3:1		
RF Out Port		WR-04 UG-387/UM		
Power Supply		+12 V @ 1A		
Operating Temperature Range		+0°C - 30°C		
Storage Temperature Range		-20°C - 50°C		
Dimensions	mm	100 x 100 x 200		
Weight	kg	1.75		

**Datasheet**

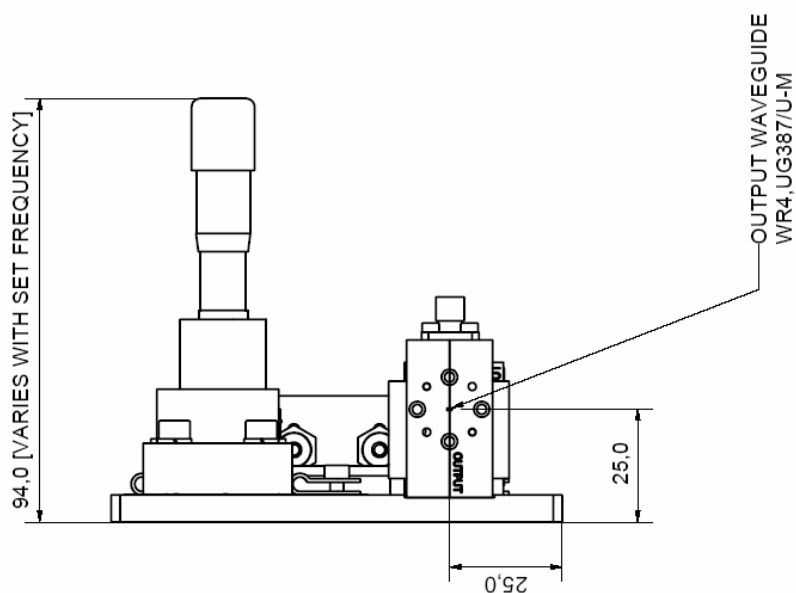
Note: Other frequencies and output powers available.  
Contact factory for more information.

Farran Technology reserves the right to change, without notice, the characteristic data and other specifications applied to this product. The product may be subject to Irish export restrictions.

Datasheet



FST-04 angle view.



FST-04 front view.

**Datasheet****Description**

The Farran Technology FST-05 frequency source modules consist of a micrometer-tuned free running DRO and a chain of solid state multipliers. The units operate based on a passive, tuner-less planar varactor tripler in the final multiplication stage and are capable of producing high signals in the 165 – 225 GHz frequency range. The final stage triplers can operate with external bias source or alternative self biasing mode.

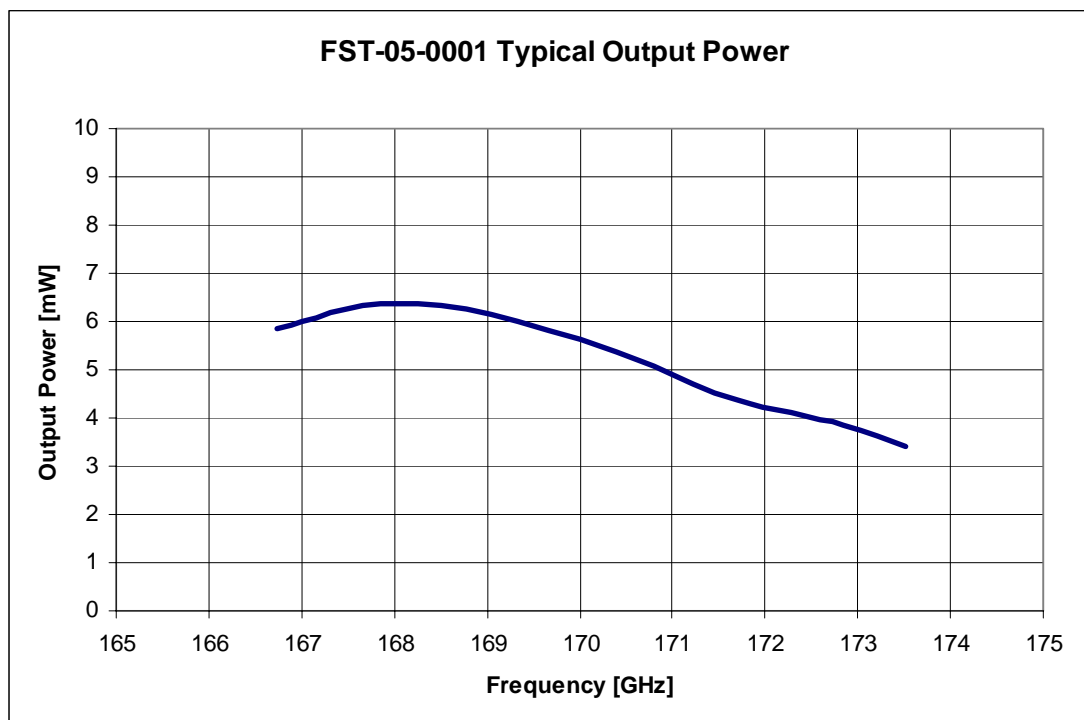
**Features**

- Planar varactor diodes
- Micrometer driven frequency tuning
- High output power

**Applications**

- Mm-Wave instrumentation
- Communication systems
- Frequency sources

Specification	Unit	Min	Typ	Max
Output Frequency	GHz	165		175
RF Output Power	GHz	2	5	
Harmonic Level	dBc	-20		
RF Out VSWR		<3:1		
RF Out Port		WR-05 UG-387/UM		
Power Supply		+12 V @ 1A		
Operating Temperature Range		+0°C - 30°C		
Storage Temperature Range		-20°C - 50°C		
Dimensions	mm	100 x 100 x 200		
Weight	kg	1.75		

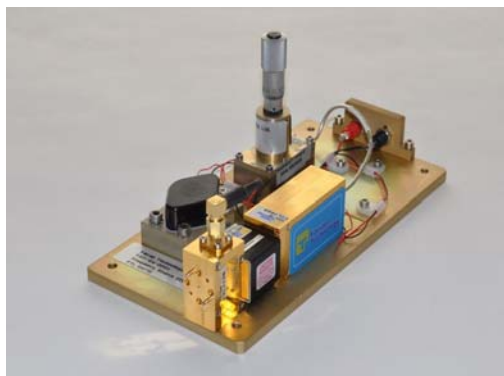
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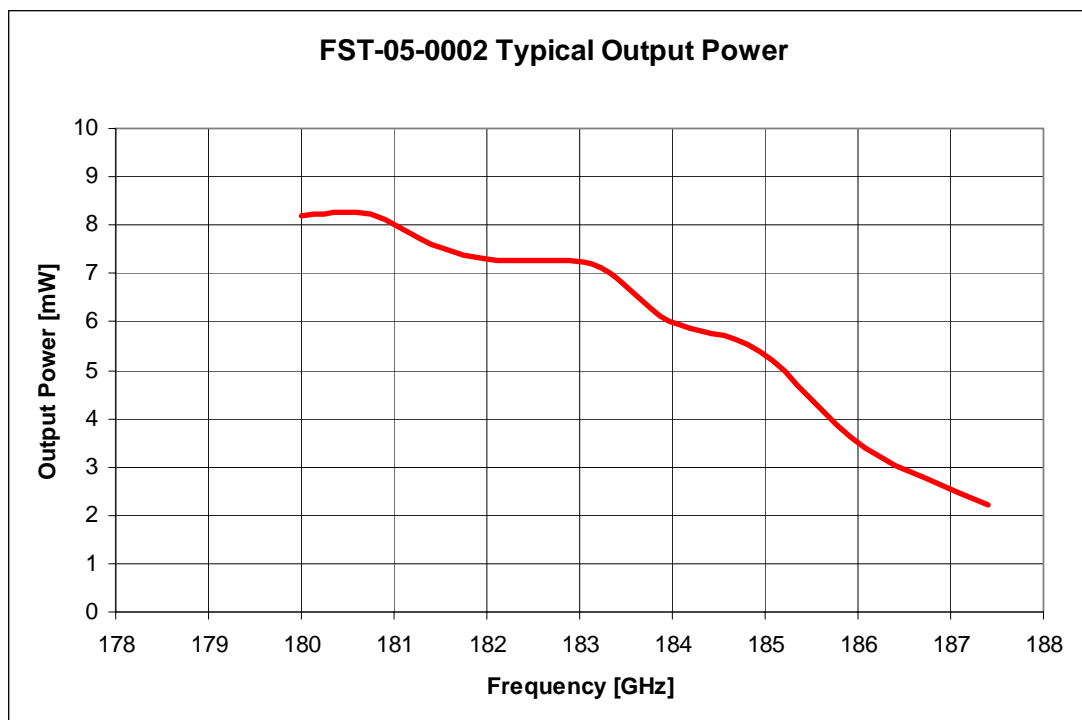
**Features**

- Planar varactor diodes
- Micrometer driven frequency tuning
- High output power

**Applications**

- Mm-Wave instrumentation
- Communication systems
- Frequency sources

Specification	Unit	Min	Typ	Max
Output Frequency	GHz	177.5		187.5
RF Output Power	GHz	2	6	
Harmonic Level	dBc		-20	
RF Out VSWR			<3:1	
RF Out Port			WR-05 UG-387/UM	
Power Supply			+12 V @ 1A	
Operating Temperature Range			+0°C - 30°C	
Storage Temperature Range			-20°C - 50°C	
Dimensions	mm		100 x 100 x 200	
Weight	kg		1.75	

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