



ACTIVE MULTIPLIERS

[FDA-K-0003](#)

[FDA-K28](#)

[FXA-12](#)

[FQA-V-0001](#)

Datasheet**Description**

A general purpose MMIC packaged x2 multiplier in the K-band frequency range.

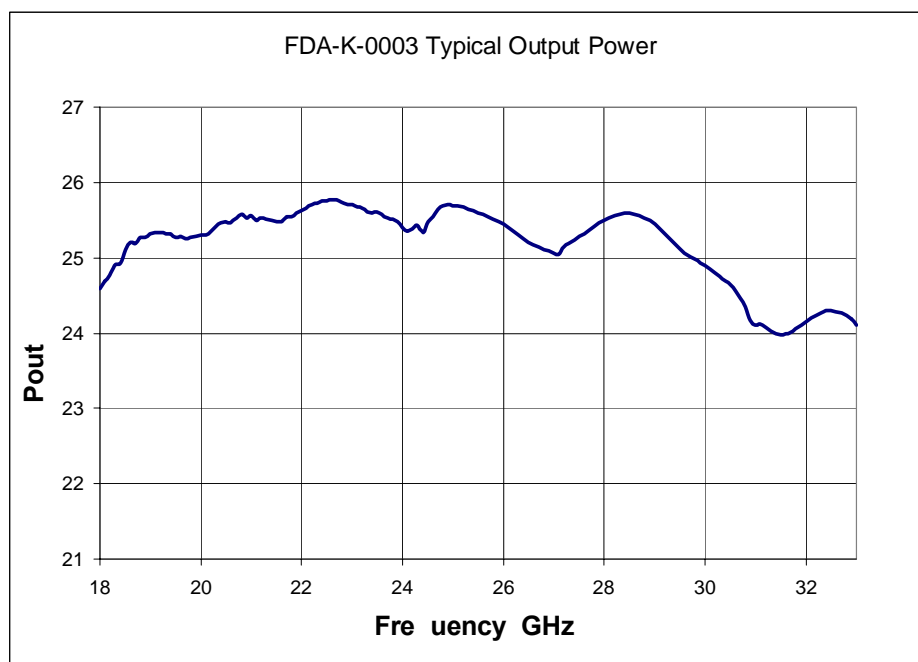
**Features**

- Wide band coverage
- High output power

Applications

- LO chains
- Radar sources
- Communication sources
- Test equipment

Specification	Unit	Min	Typ	Max
Input Frequency	GHz	9		16.5
Output Frequency	GHz	18		33
Multiplication Factor	-		2	
Pin	dBm		5	10
Pout	dBm		24	26
Harmonic Level	dBc		-30	-20
Supply Voltage	V	6		12
Current	mA		800	1000
Input/Output Connector	-	K (F)		

Datasheet**Notes:**

1. 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.
2. Lower output power available. Please contact Farran Technology directly for more information.

Datasheet**Description**

A general purpose MMIC packaged x2 multiplier in the Ka-band frequency.

**Features**

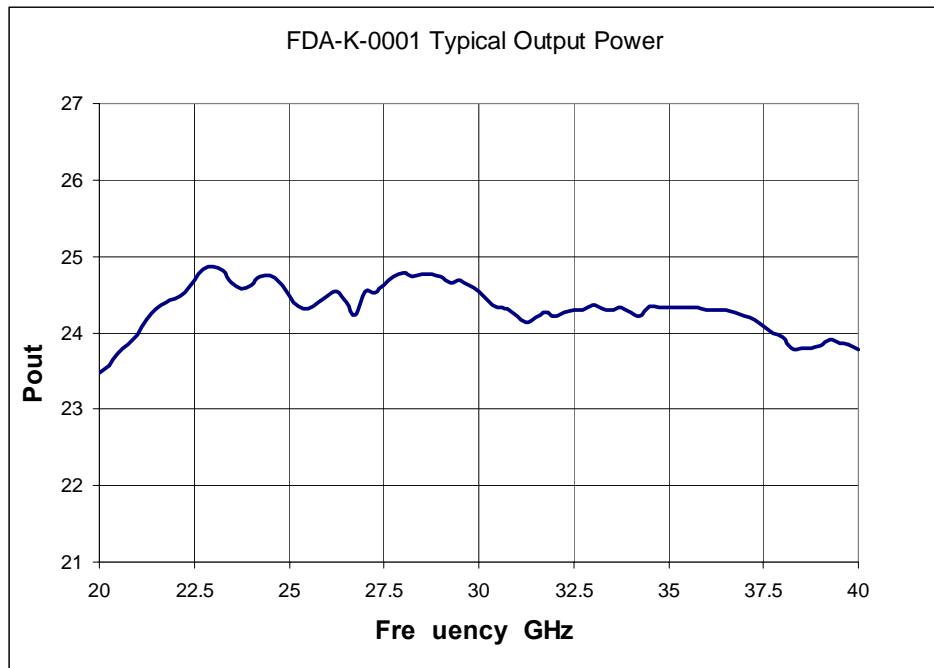
- K type or WR-28 output available
- Wide band coverage
- High output power

Applications

- LO chains
- Radar sources
- Communication sources
- Test equipment

Specification	Unit	Min	Typ	Max
Input Frequency	GHz	10		20
Output Frequency	GHz	20		40
Multiplication Factor	-		2	
Pin	dBm		5	10
Pout	dBm			24
Harmonic Level	dBc		-30	-20
Supply Voltage	V	6		12
Current	mA		900	1100
Input Connector	-	K (F)		
Output Connector	-	K (F) or (optionally WR-28)		

Datasheet



Datasheet

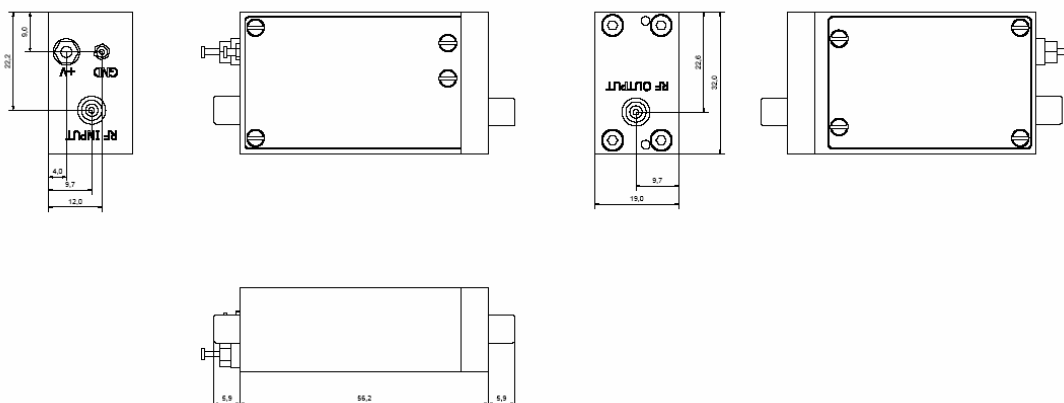


Figure 1 FDA- outline

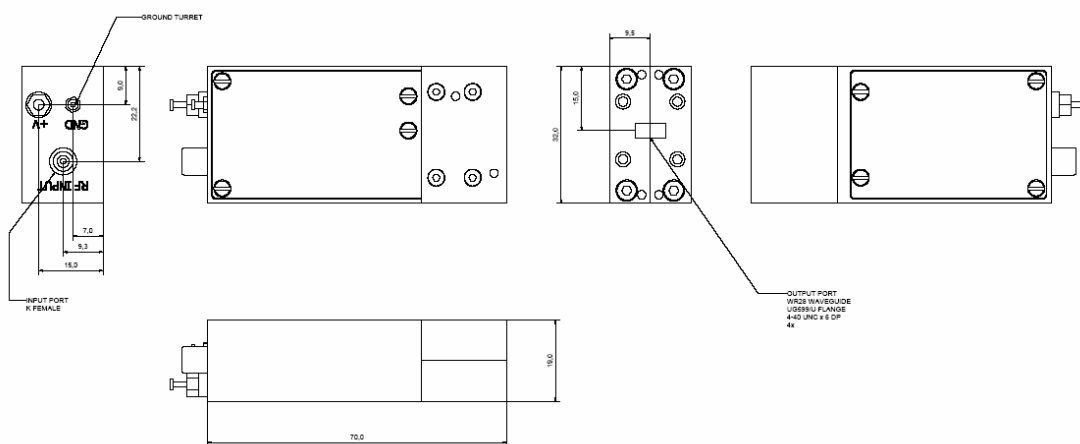


Figure 2 FDA-28 outline

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2. * Lower Output power available. Please contact Farran Technology directly for more information.
3. ** FDA-28 output frequency is limited by the waveguide cut-off at 21.1 GHz

Datasheet

Description

A general purpose MMIC packaged x8 multiplier in the E-band frequency range.



Features

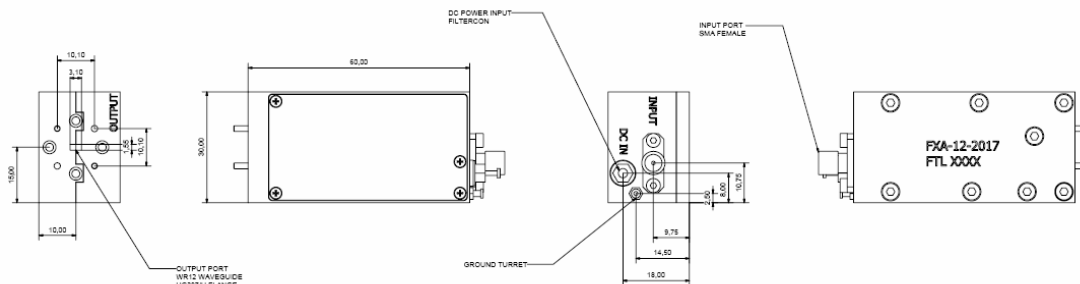
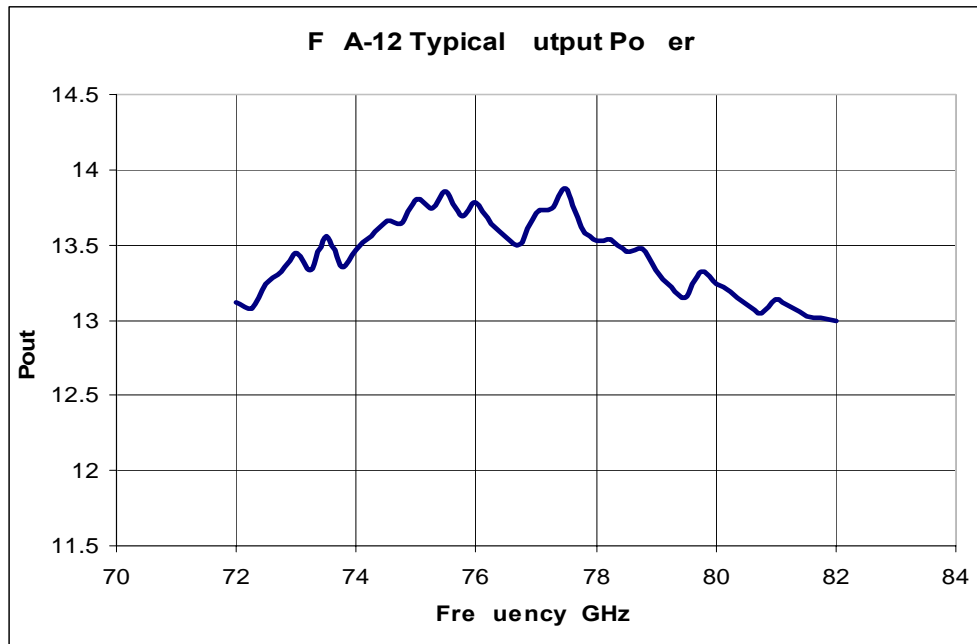
- Wide band coverage
- Compact outline

Applications

- LO chains
- Radar sources
- Communication sources
- Test equipment

Specification	Unit	Min	Typ	Max
Input Frequency	GHz	9		10.25
Output Frequency	GHz	72		82
Multiplication Factor	-		8	
Pin	dBm		10	13
Pout	dBm		13	*
Harmonic Level	dBc		-40	-20
Supply Voltage	V	6		12
Current	mA		720	850
Input Connector	-	K(F)		
Output Connector	-	WR-12 UG-387/U		

Datasheet



Notes :

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2. * Higher Output power available. Please contact Farran Technology directly for more information

Datasheet

Description

A general purpose MMIC packaged x4 multiplier covering a very wide 18-50 GHz bandwidth.



Features

- ~ Wide band coverage
- ~ High output power
- ~ Low harmonic/spurious content

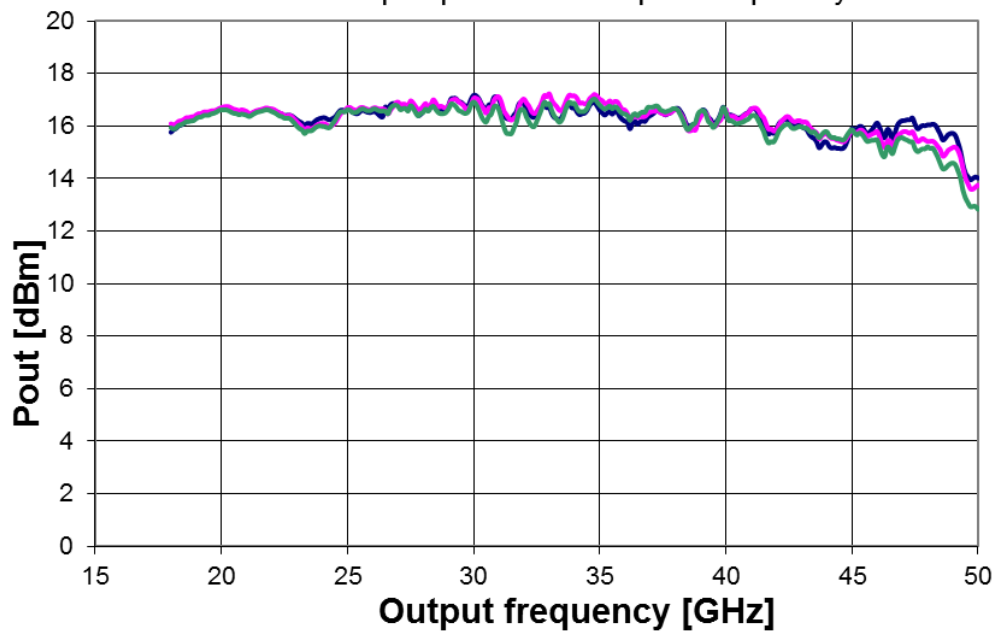
Applications

- ~ LO chains
- ~ Radar sources
- ~ Communication sources
- ~ Test equipment

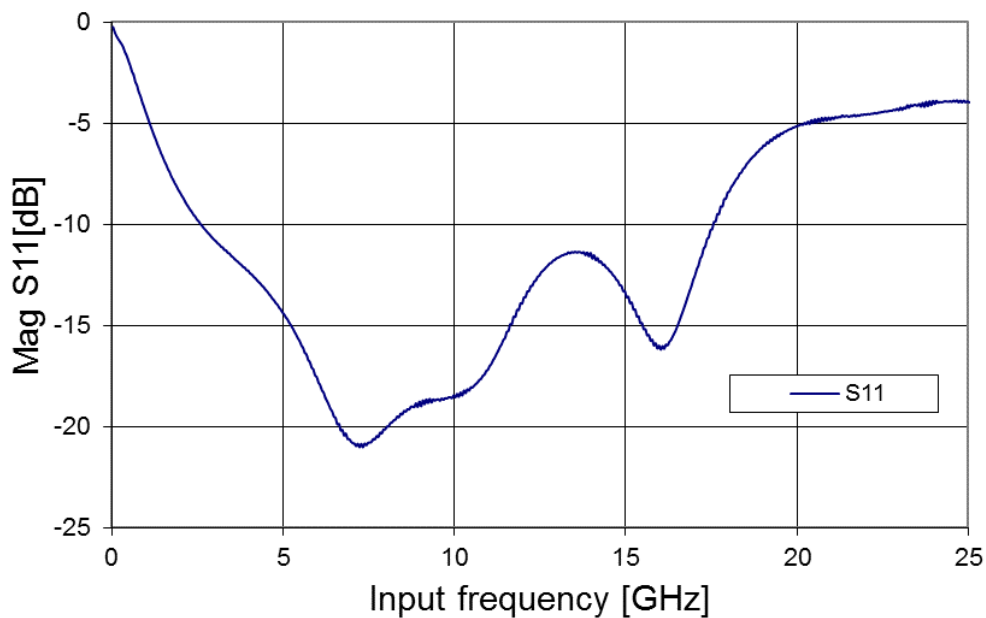
Specification	Unit	Min	Typ	Max
Input Frequency	GHz	4.5		25
Output Frequency	GHz	18		50
Multiplication Factor	-		4	
Pin	dBm		5	10
Pout	dBm	10	15	
Harmonic Level	dBc		-15	
Supply Voltage	V	6		12
Current	mA		500	650
Input Connector	-	SMA (F)		
Output Connector	-	1.85 mm (F)		

Datasheet

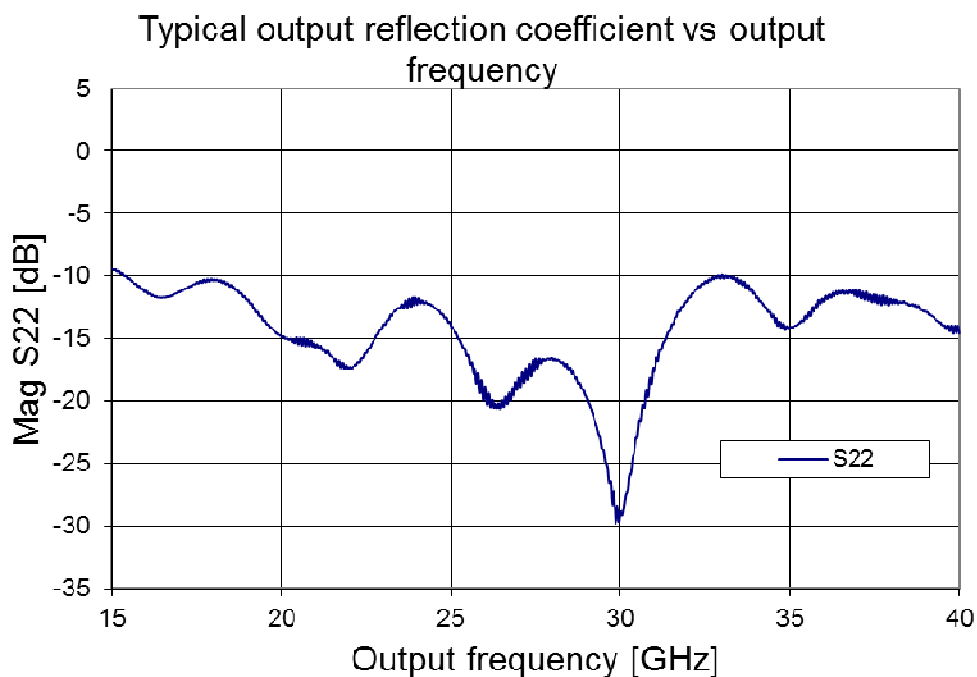
Output power vs output frequency



Typical input reflection coefficient vs input frequency



Datasheet



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2. Other output powers available. Please contact Farran Technology directly for more information.