



POWER AMPLIFIER

FPA-22-0001 - 43-46GHz

FPA-15-0001- 55-65GHz

FPA-12-0001- 71-77GHz

FPA-10-0003 - 75-110GHz

FPA-10-0004 - 88-96GHz

FPA-10-0005 - 88-96GHz

FPA-10-0006 - 75-110GHz

## Datasheet

### Description

A medium power full WR-10 waveguide band amplifier giving +10 dBm typical output power.



### Features

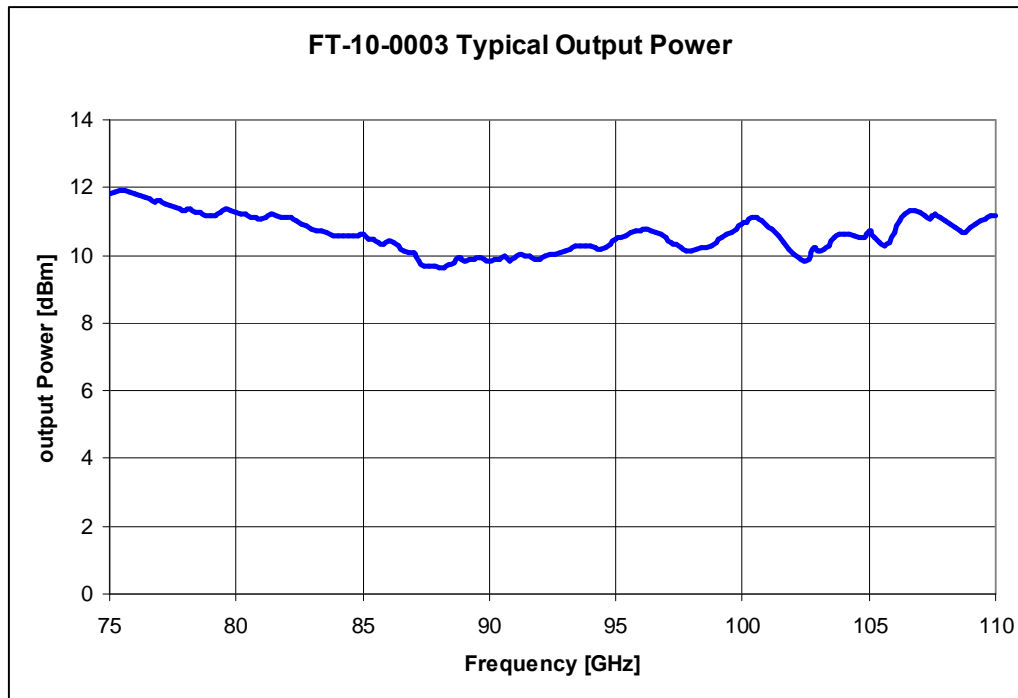
- ~ High gain
- ~ High P1dB
- ~ Wide bandwidth

### Applications

- ~ Communication receivers/Wireless links
- ~ Driver amplifiers
- ~ Point to point communication
- ~ Sensors/Radars

Specification	Unit	Min	Typ	Max
Frequency	GHz	75		110
Bandwidth	GHz		35	
Output Power Psat	dBm		+10	
Gain	dB		10	
DC Power	V/mA		6/150	
In/Out VSWR	-		2.5:1	

Datasheet



## Datasheet

### Description

A state of the art W-Band high power amplifier giving 0.5W of output power over a broad band in a WR-10 waveguide assembly.



### Features

- ~ High gain
- ~ P1dB
- ~ Wide bandwidth

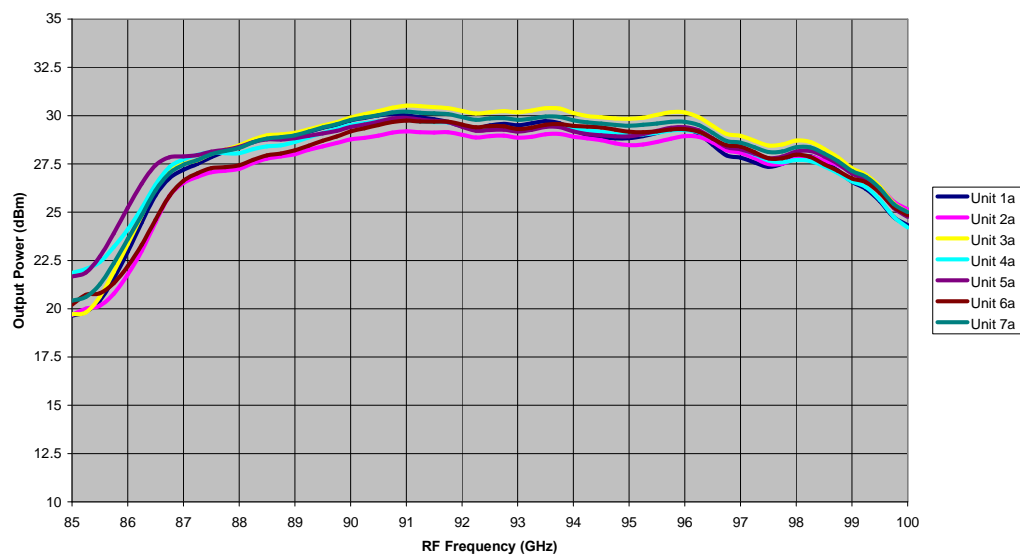
### Applications

- ~ Communication receivers/Wireless links
- ~ Driver amplifiers
- ~ Point to point communication
- ~ Sensors/Radars

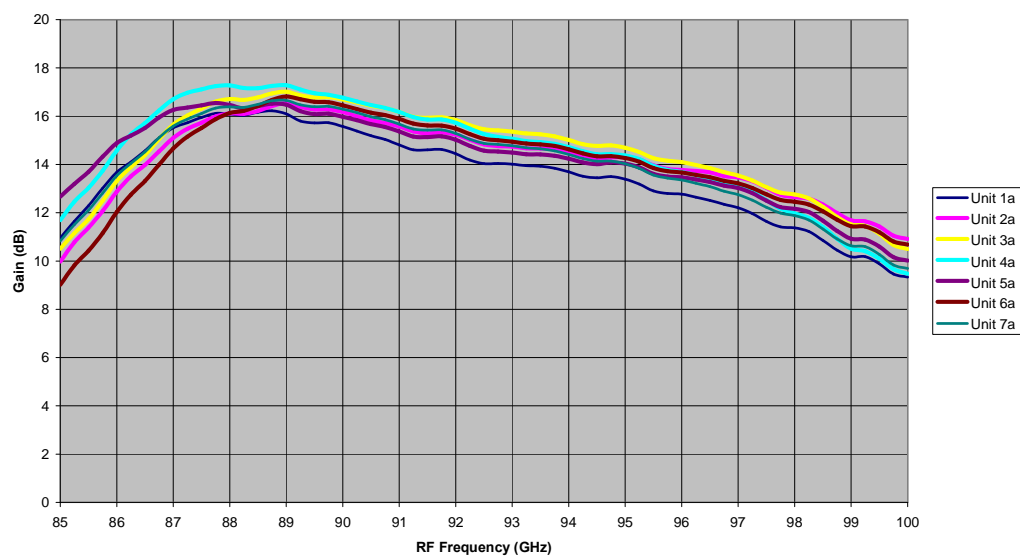
Specification	Unit	Min	Typ	Max
Frequency	GHz	88		96
Bandwidth	GHz		8	
Output Power	dBm		27	
Gain	dB		13	
DC Power	V/ma		15/400	
VSWR			2.5:1	

**Datasheet**

**Output Power v RF Frequency**



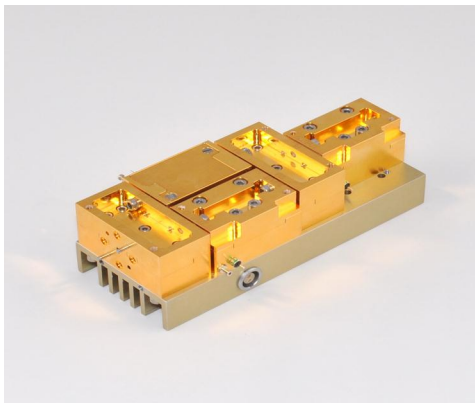
**Gain v RF Frequency**



## Datasheet

### Description

A state of the art W-Band high power amplifier giving 1W of output power over a broad band in a WR-10 waveguide assembly. The unit comes with integrated cooling to allow operation without the need for expensive heat-sinking or specific mounting to dissipate heat.



### Features

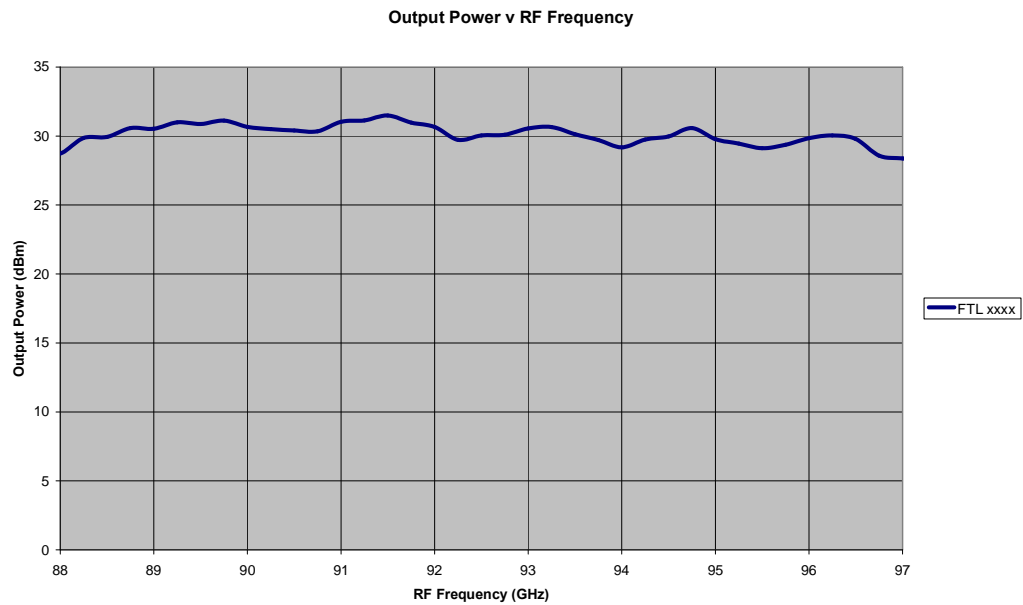
- ~ High gain
- ~ P1dB
- ~ Wide bandwidth

### Applications

- ~ Communication receivers/Wireless links
- ~ Driver amplifiers
- ~ Point to point communication
- ~ Sensors/Radars

Specification	Unit	Min	Typ	Max
Frequency	GHz	88		96
Bandwidth	GHz		8	
Output Power	dBm		30	
Gain	dB		25	
DC Power	V/ma		15/1200	
VSWR			2.5:1	

Datasheet



## Datasheet

### Description

A high power full WR-10 waveguide band amplifier giving +20 dBm typical output power.



### Features

- ~ High gain
- ~ High P1dB
- ~ Wide bandwidth

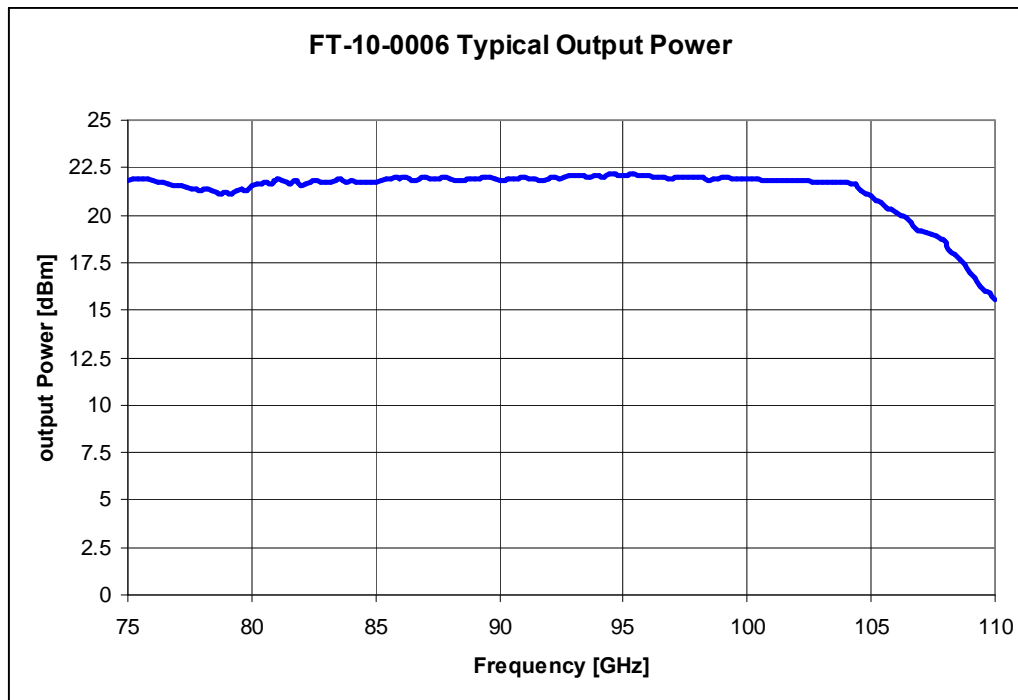
### Applications

- ~ Communication receivers/Wireless links
- ~ Driver amplifiers
- ~ Point to point communication
- ~ Sensors/Radars

Specification	Unit	Min	Typ	Max
Frequency	GHz	75		110
Bandwidth	GHz		35	
Output Power Psat	dBm		+20	
Gain	dB		15	
DC Power	V/mA		12/100	
In/Out VSWR	-		2.5:1	



Datasheet



## Datasheet

### Description

A state of the art E-Band high power amplifier giving >0.5W of output power over a broad band in a WR-12 waveguide assembly. The amplifier can be supplied as a stand alone product or as a transmit power booster for the FMCW-12 range of products.



### Features

- ~ High saturated output power
- ~ High Gain
- ~ Wide bandwidth

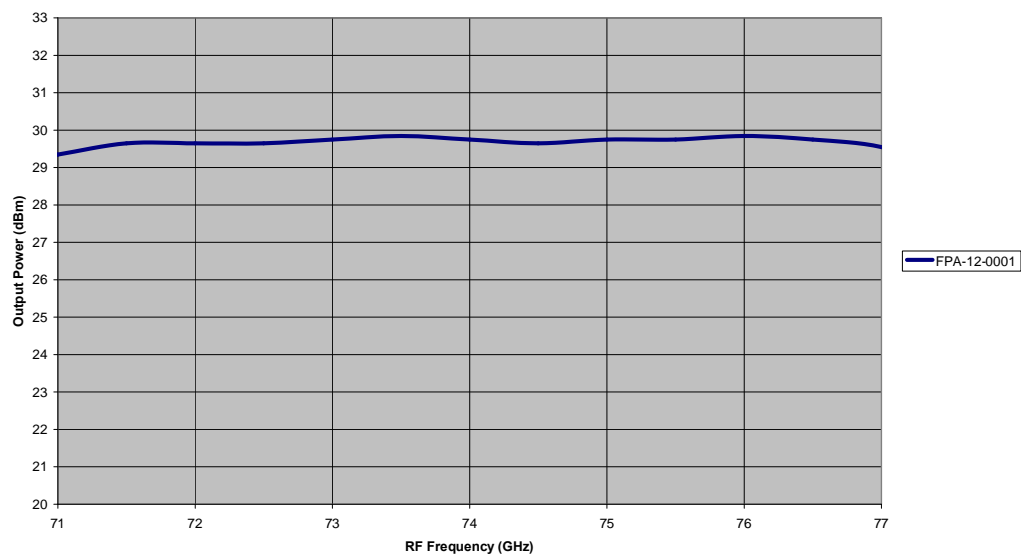
### Applications

- ~ FMCW systems
- ~ Communication receivers/Wireless links
- ~ Driver amplifiers
- ~ Point to point communication
- ~ Sensors/Radars

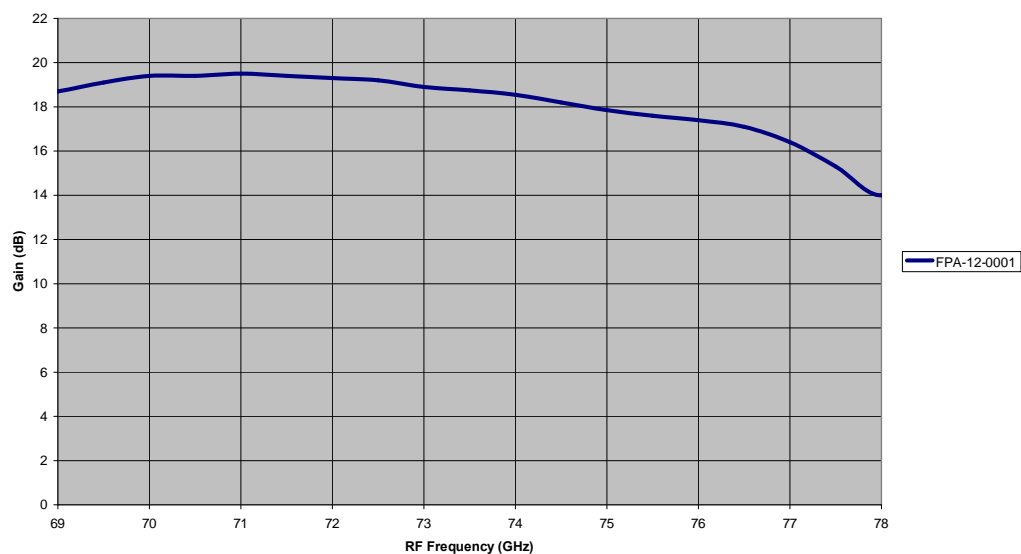
Specification	Unit	Min	Typ	Max
Frequency	GHz	71		77
Bandwidth	GHz		6	
Output Power	dBm	+27	+28.5	
Gain	dB		16	
DC Power	V/ma		15/450	
VSWR			2.5:1	

**Datasheet**

**O/P power v RF Frequency**



**Gain v RF Frequency**



## Datasheet

### Description

A comprehensive range of MMIC-based amplifiers covering 18-110GHz region are available including some new W-band and U-band, Interfaces can be designed to suit the application as well as custom designs being available,

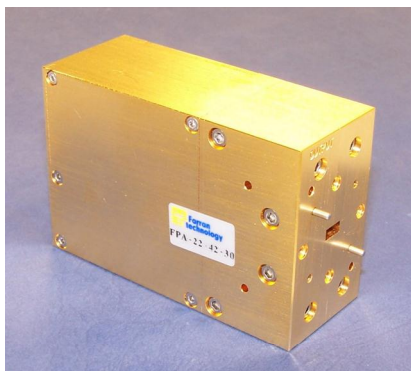
### Features

- ~ High gain
- ~ P1dB
- ~ Wide bandwidth

### Applications

- ~ Communication receivers
- ~ Radar front ends
- ~ Driver amplifiers
- ~ Point to point communication

Specification	Unit	Min	Typ	Max
Frequency	GHz	55		65
Bandwidth	GHz		10	
P1dB	dB		16	
Gain	dB		25	
DC Power	V/ma		8/200	
VSWR			2.0:1	



## Applications

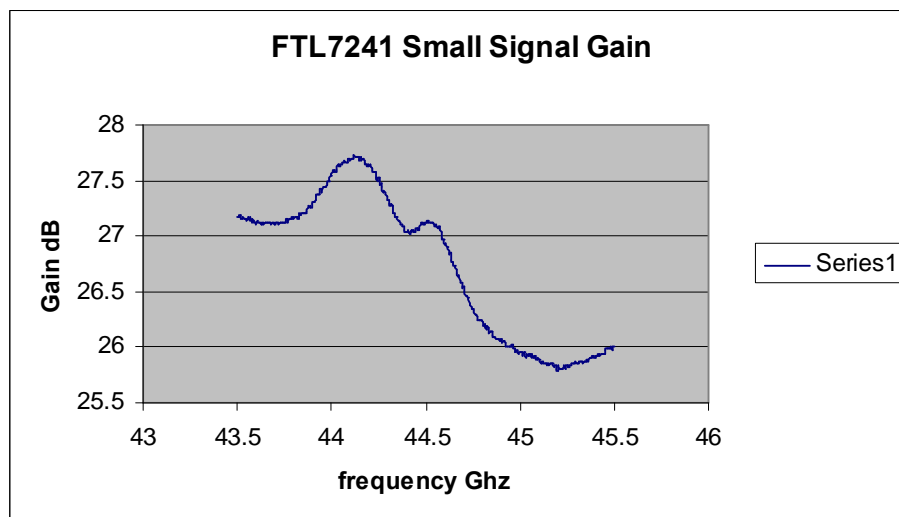
- Driver amplifier
- Base Station TX
- Instrumentation
- Point to point communications

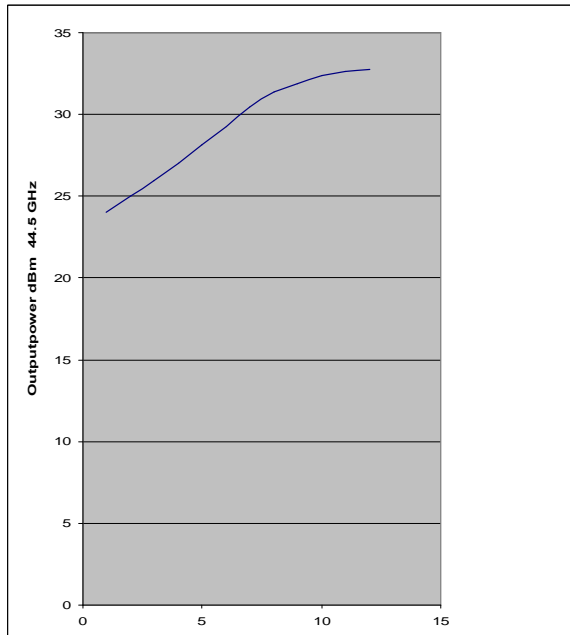
## Features

Product features	Min	Typ	Max	Unit
RF Frequency	43		46	GHz
Linear Gain	25	27		dB
Psat		33		dBm
P1dB	30	31		dBm
Supply Voltage	+7	+8	+9	V
Supply Current		4600		mA
Connectors	Input	2.4 mm	Output	WR-22

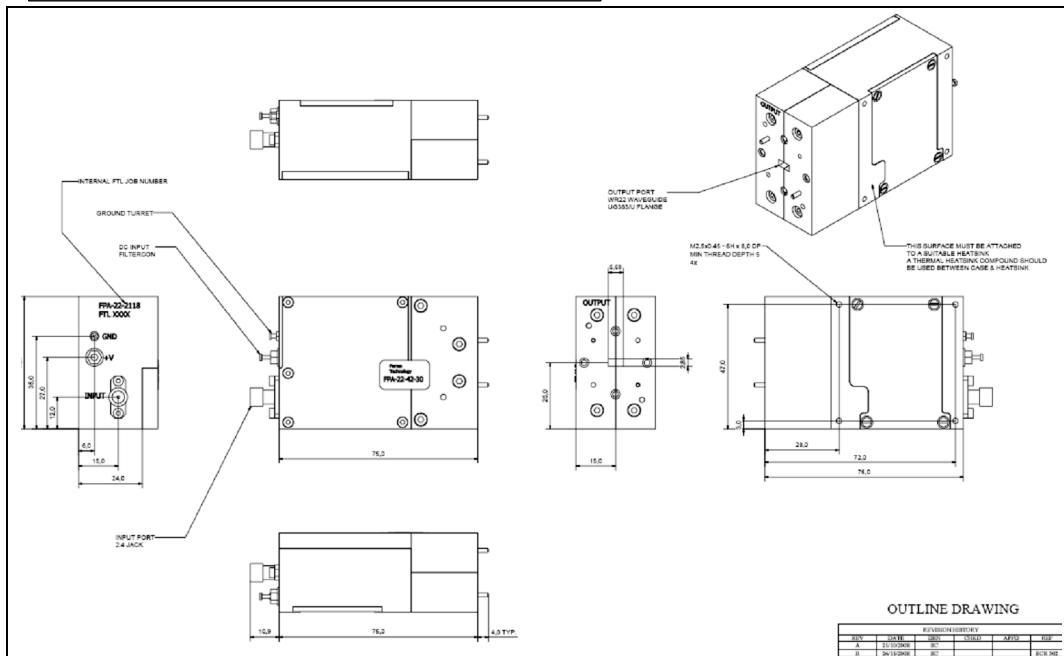
## Description

A general purpose 1 watt CW power amplifier in the 43-46 GHz frequency range. The unit is used with a heatsink.





1dB compression  
point at 44.5 GHz


**Note :**

The data contained in this document describes new products in the pre-production phase of development, and is for information only. Farran Technology reserves the right to change,

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