

**Datasheet**
**Description**

The FES-19 series will expand the frequency of your existing microwave Signal Generator to WR19 (40-60GHz) band. These frequency extension modules easily connect to the output of your signal generator so you have a high performance signal source for your DUT characterisation activities. Characterise your DUT with the confidence that the superior performance in terms of output power, spurious and harmonics level will provide accurate results.


**Features**

- Solid state multipliers
- Coverage 40 GHz to 325 GHz
- High output power specification
- Good harmonic suppression
- Separate AC/DC power source
- Low cost
- Stable and light weight
- Supports FM/PM and pulse modulations
- Compatible with standard signal generators
- Optional manual variable attenuator

**Applications**

- Test equipment extension
- Frequency sources for emerging mm-wave applications
- RF/LO sources for mixer measurements

**Accessories**

- AC/DC converter with 2m cable
- Manual

Specification	Unit	Min	Typ	Max
System Operating Frequency	GHz	40		60
Test Port Output Power (2)	dBm		+10	
Optional Manual Variable Attenuator	dB	0		25
RF Input Frequency	GHz	10		15
RF Input Power	dBm	+5		+10
RF Multiplication Factor	GHz		4	
RF Input Port Damage Level	dBm	+15		
RF Input VSWR	-		< 1.5	
RF Output VSWR	-		< 1.5	
Test Port Interface	-	WR-19 UG-383/UM		
RF Connector	-	SMA (F)		
DC Power Requirements	-	+12V at 1000 mA		
Weight	kg		1.5	
Dimensions (L x W x H)	-	250 x 130 x 85		
Operating Temperatures	°C	0		30

(1) Specifications are typical and subject to change without a notice.

(2) For frequencies greater than 110 GHz traceable only to FTL calorimeter.

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## Typical FES-19 Output Power

