



General Information

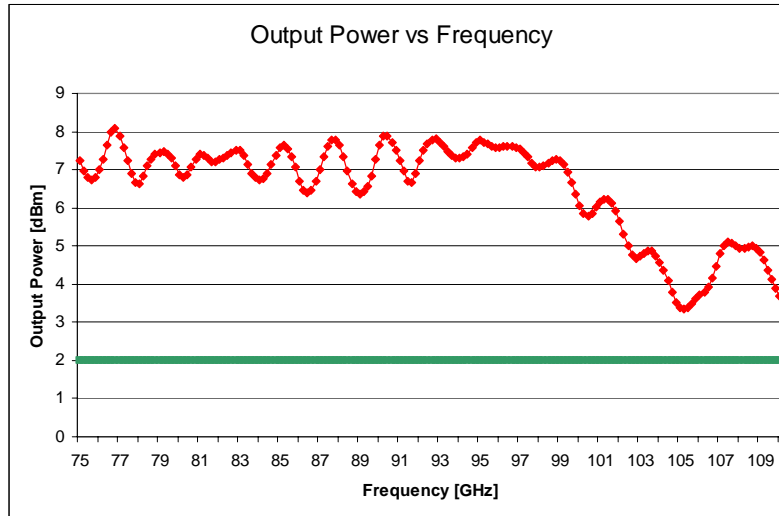
The Farran Technology Ltd (FTL) FES-15/12/10 frequency extension sources are optional equipment to extend frequency range of customer owned Signal Generators (Agilent, Anritsu, R&S). The FES modules consist of solid state multipliers and allow multiplication of low frequency signals (< 20 GHz) to a range from 50 GHz to 110 GHz.

As a basic set up the FTL frequency extension source comes with the following:

- 1 off FES-15 or FES-12 or FES-10
- 1 off AC / DC power source supply

Electrical specification

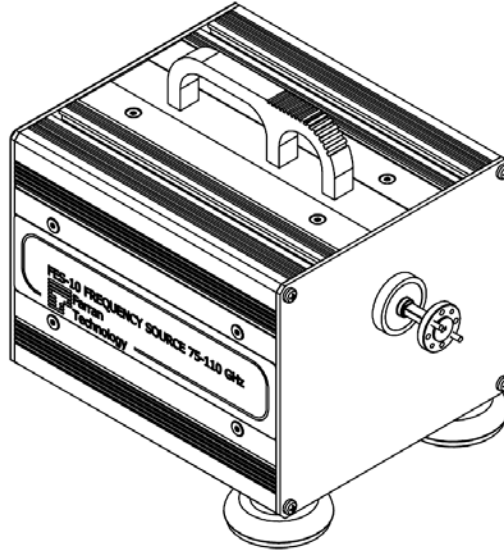
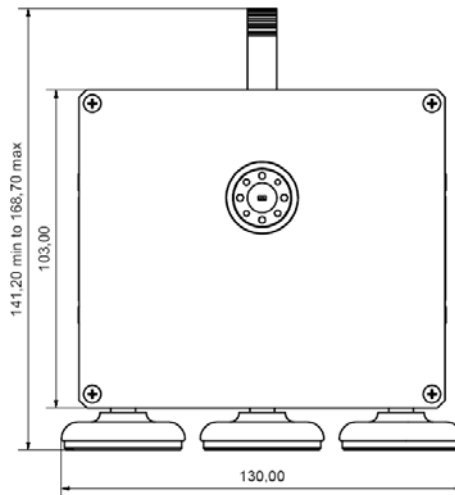
		Model		
Specification	Unit	FES-15	FES-12	FES-10
Frequency In	GHz	12.5 – 18.7	10 - 15	12.5 – 18.4
Frequency Out	GHz	50 - 75	60 - 90	75 - 110
RF In (typ)	dBm	+ 5		
RF Out (typ)	dBm	+8	+6	+5
Harmonic Level	dBc	-20		
RF In VSWR	-	< 1.5		
RF Out VSWR	-	< 1.5		
RF In Port	-	3.5 mm (F)		
RF Out Port	-	WR-15, WG-25 UG-385/UM	WR-12, WG-26 UG-387/UM	WR-10, WG-27 UG-387/UM

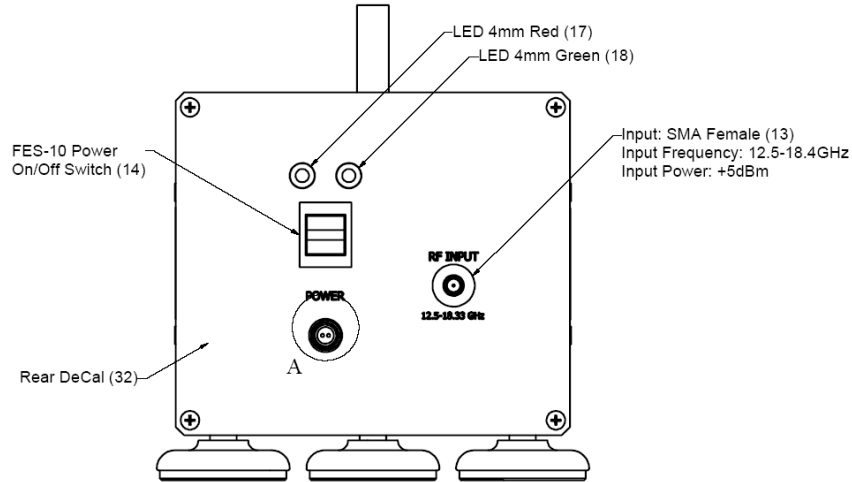
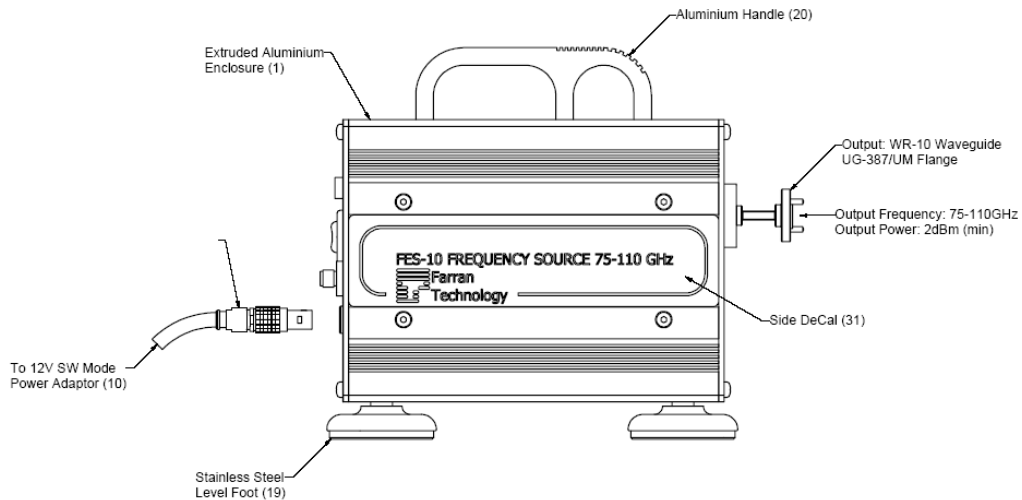
Typical output power plot for FES-10

Power supply

Connector type	LEMO 4 pin socket
Voltage	+12 V
Current	< 1000 mA

General specifications

Operating temperature range	+0 °C to +30°C
Storage temperature range	-20 °C to +50 °C
Dimensions (W x H x D)	130 mm x 140 mm x 170 mm
Number of feet	3
Feet height	0 to 40 mm
Weight	1.75 kg

**FES-10 angle view****FES-10 front panel view**


FES-10 rear panel view

FES-10 side view