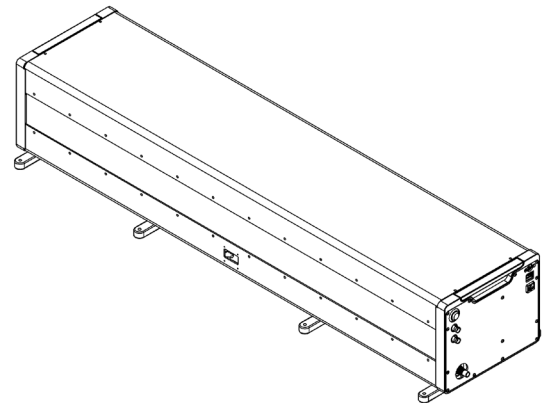


# M1807

F0, 2F0, 3F0 Harmonic Tuner (0.7-18 GHz)

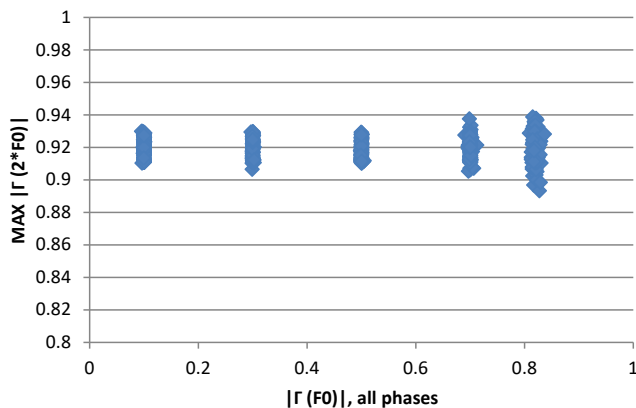
## General

The M is Focus' flagship proprietary tuner technology. Its performance is unmatched and its capabilities make it the most versatile and popular tuner in the industry. Multi-purpose tuners (L) use two wideband probes, allowing independent control of the amplitude and phase of the reflection factor at two harmonic frequencies simultaneously. The M technology is widely used for advanced applications like high power/efficiency RF amplifier design. By controlling the harmonic impedances with an accuracy of >40dB at the source and load, users can generate more robust transistor behavior models and have better insight on how their device performs in all classes of operation. The M can be used to pre-match impedances at the fundamental and the harmonic frequencies making it ideal for hybrid active systems, reducing significantly the power needed to drive the load of high power devices to  $|\Gamma_{LOAD}| \leq 1$ . L tuners use two probes and control the fundamental F0 and one harmonic frequency (2F0 or 3F0).



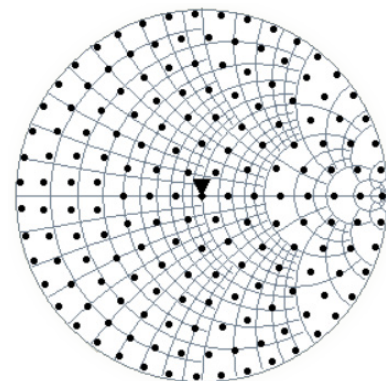
Model	Freq. Range (GHz)	Connector Type	VSWR		Maximum Power** (W, CW)	Repeatability (min, dB/ typical, dB)	Weight (lbs)	Length (in)
			High VSWR*	Harmonic tuning				
M1807	0.7 - 18	N, APC-7	55.6:1	10:1-100:1	427	-40/-50	70	40.280

Harmonic tuning\*

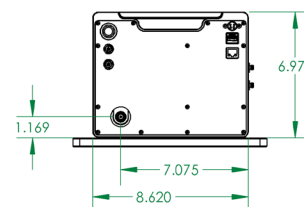
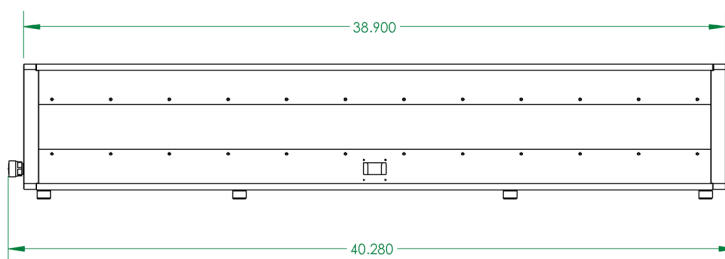


\*measured at F0 = 2.1GHz

High VSWR Tuning\*



## Dimensions



\*\*at 18GHz (connector limited)

