



# iCCMT-708-SP

Designed for WLAN, WiMAX, 3G/4G

## General

The Focus iCCMT-708-SP Intelligent Computer Controlled Microwave Tuner has been designed for an extremely high reflection between 0.8 GHz and 6 GHz, making it an integral part of many load pull and noise setups. The iCCMT-708-SP allows for full and accurate characterization of packaged and on-wafer transistors. Optional upgrades include a balancing kit for reliable on-wafer testing, performance-tuned slugs, patented prematch section and low-loss bend lines. The iCCMT-708-SP makes use of Focus' proprietary TCP/IP capable iTuner technology with built-in micro-processor and command language, allowing tuning to any interpolated impedance within the tuning range with a typical accuracy of 40dB or better. As such, the iCCMT-708-SP can be used with Focus' software or independently by using the Focus ActiveX control. iTuner allows for full customization and integration with popular software applications such as Agilent VEE and Lab-View. Typical uses include WLAN, WiMAX, 3G/4G mobile communications.



## Specifications

Frequency Range (GHz) .....	0.8 - 6.5
VSWR (min) .....	100:1
VSWR (typical) .....	70:1
Insertion Loss (dB) .....	0.20 <sup>1</sup>
Repeatability (min, dB) .....	- 40
Repeatability (typical, dB) .....	- 50
Airline Width (mm) .....	16.0

Step Size (carriage, $\mu$ m) .....	25.4
Phase Resolution @ 0.8 GHz .....	0.05° /step
Phase Resolution @ 6.5 GHz .....	0.375° /step
Step Size (probe, $\mu$ m) .....	1.5
Tuner Weight (lbs) .....	18.0
Shipping Weight (lbs) .....	40.0 <sup>2</sup>

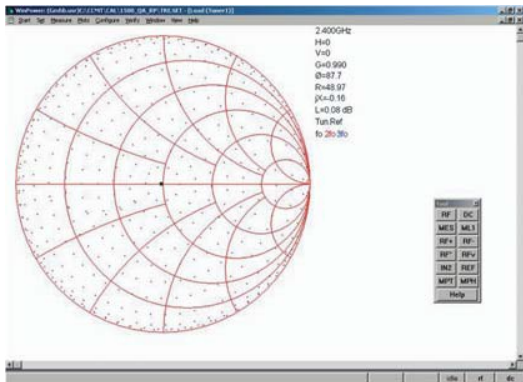
Model	Connector Type	Power Handling (W, CW) <sup>3</sup>	Length A (in)
iCCMT-708-SP	APC-7	30	14.22
iCCMT-708-SP	N	90	14.87
iCCMT-708-SP	7/16	250	12.37

### Power Supply Specifications

Input (AC) 100-240V, 1.8A Output (DC) 12V, 5A

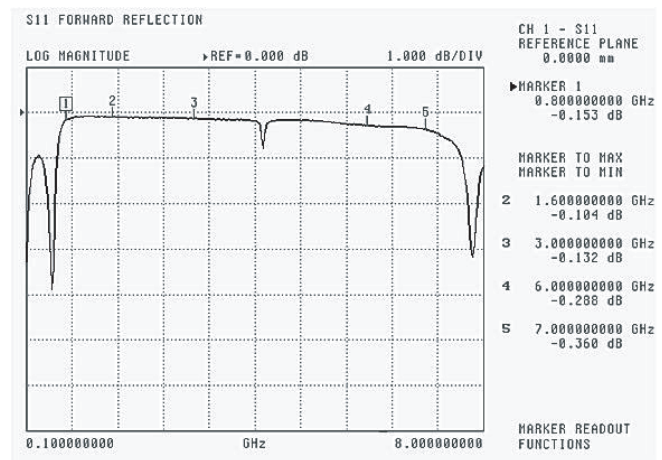


## Smith Chart Coverage



<sup>1</sup> Measured at 6.5 GHz, probe withdrawn  
<sup>2</sup> Includes packaging and accessories, may vary  
<sup>3</sup> Measured at 10:1 VSWR

## Typical VSWR



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