



iCCMT-110750

Waveguide Microwave Tuner 75 - 110 GHz

General

The Focus iCCMT-110750 Intelligent Computer Controlled Millimetrewave Tuner has been designed for 75 GHz to 110 GHz operation, making it an integral part of many load pull and noise setups. The iCCMT-110750 allows for full and accurate on wafer characterization of transistors. The iCCMT-110750 makes use of Focus' proprietary TCP/IP iTuner technology, allowing tuning to any interpolated impedance with an accuracy of 40dB or better. The iCCMT-110750 can be used independently via the Focus ActiveX control, which allows for full customization using applications such as Agilent VEE and LabView. On wafer integration of iCCMT-110750 is straight forward using waveguide bias able probes, and Focus 3-axis positioners.



Specifications

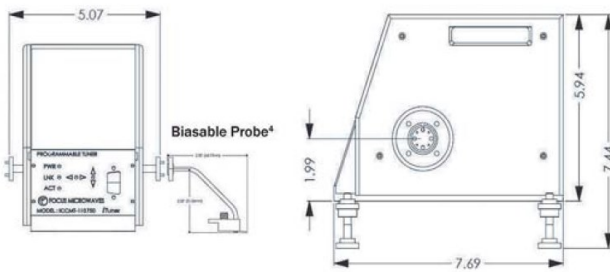
Frequency Range (GHz)	75 - 110
VSWR (min)	15:1
VSWR (Typical), 110 GHz	45:1
VSWR (Typical), 75 GHz	30:1
Insertion Loss (dB)	0.5 ₂
Repeatability (min, dB)40
Repeatability (typical, dB)50
Power Handling.....	.20W ₃

Step Size (carriage, µm)	3.05
@ 75 GHz.....	0.34% ¹ / step
@ 110 GHz	0.68% ¹ / step
Step Size (probe, µm)	2.2
Waveguide.....	WR-10
Tuner Weight (lbs)	10.0
Shipping Weight (lbs)	25.0 ₄
Size	See Dimensions

Power Supply Specifications

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

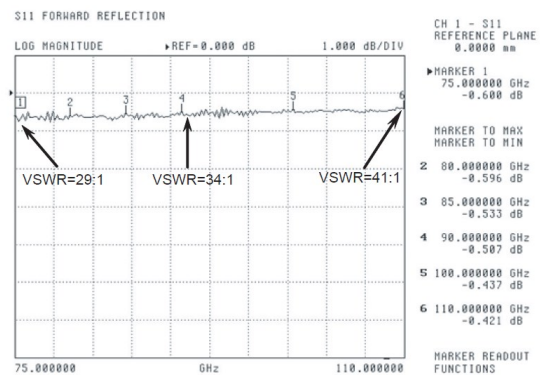
Dimensions



Wafer Setup

Fixture Setup

Typical VSWR



1 Available from GGB Industries and Cascade Microtech
 2 Measured with probes withdrawn
 3 Measured at 10:1 VSWR
 4 Includes packaging and accessories



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