



iCCMT-90600

Waveguide Microwave Tuner 60 - 90

General

The Focus iCCMT-90600 Intelligent Computer Controlled Millimetrewave Tuner has been designed for 60 GHz to 90 GHz operation, making it an integral part of many load pull and noise setups. The iCCMT-90600 allows for full and accurate on wafer characterization of transistors. The iCCMT-90600 makes use of Focus' proprietary TCP/IP Tuner technology allowing tuning to any interpolated impedance with an accuracy of 40dB or better. The iCCMT-90600 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-90600 is straight forward using waveguide bias able probes and Focus 3-axis tuner positioners.



Specifications

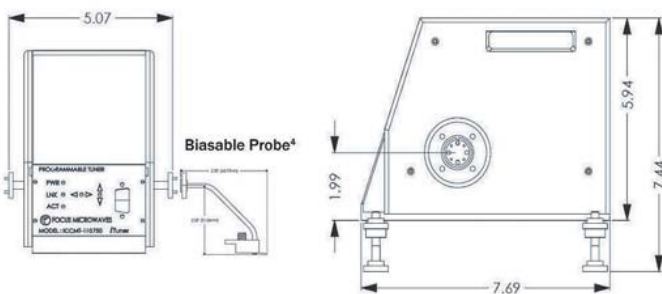
Frequency Range (GHz)	60 - 90 ¹
VSWR (min)	12:1
VSWR (typical), 90 GHz	45:1
VSWR (typical), 60 GHz	20:1
Insertion Loss (dB)	0.5 ₂
Repeatability (min, dB)	40
Repeatability (typical, dB)	-50
Power Handling	20W ₃

Step Size (carriage, μ m)	3.05
@ 60 GHz	0.25% ⁴ step
@ 90 GHz	0.55% ⁴ step
Step Size (probe, μ m)	2.2
Waveguide	WR-12
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

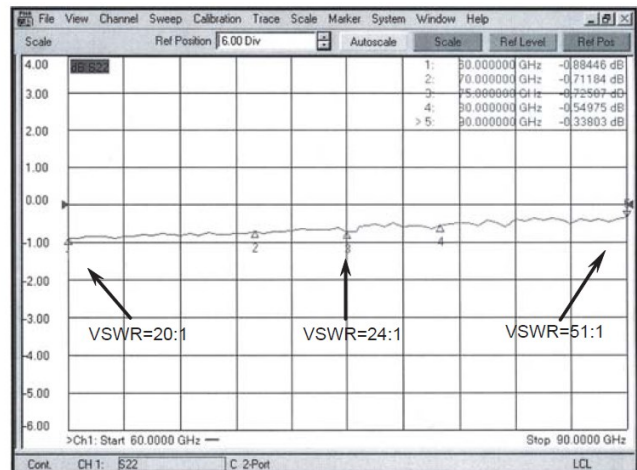
Dimensions



Wafer Setup

Fixture Setup

Typical VSWR_s



¹ Frequency range can be extended within the cut-off frequency
² Measured with probes withdrawn
³ Measured at 10:1 VSWR
⁴ Includes packaging and accessories



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