



# iCCMT-67100 (10 - 67 GHz)

Intelligent Computer Controlled Microwave Tuner

## General

The Focus iCCMT-67100 Intelligent Computer Controlled Microwave Tuner has been designed for 10 to 67 GHz operation, making it an integral part of many load pull and noise setups. The iCCMT-67100 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-67100 makes use of Focus' proprietary TCP/IP capable iTuner technology with built in microprocessor 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-67100 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 LabView™. Typical uses include GSM, TDMA, CDMA, WiFi, WiMax and radar design.



## Specifications

|                                   |         |
|-----------------------------------|---------|
| Frequency Range (GHz) .....       | 10 - 67 |
| VSWR (min) .....                  | ≥10:1   |
| VSWR (typical) .....              | 15:1    |
| Insertion Loss (dB) .....         | 1.20 ±  |
| Repeatability (min, dB) .....     | - 40    |
| Repeatability (typical, dB) ..... | - 50    |

|                                |                |
|--------------------------------|----------------|
| Step Size (carriage, μm) ..... | 3.18           |
| @ 10 GHz .....                 | 0.05° /step    |
| @ 67 GHz .....                 | 0.50° /step    |
| Step Size (probe, μm) .....    | 1.5            |
| Tuner Weight (lbs) .....       | 15.0           |
| Shipping Weight (lbs) .....    | 40.0 ±         |
| Size .....                     | See Dimensions |

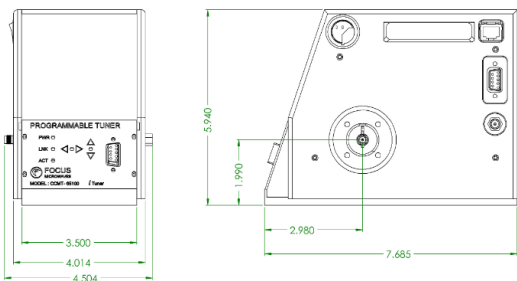
| Model       | Connector Type | Power Handling (W, CW) <sup>3</sup> |
|-------------|----------------|-------------------------------------|
| iCCMT-67100 | 1.85 mm        | 10                                  |

### Power Supply Specifications

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

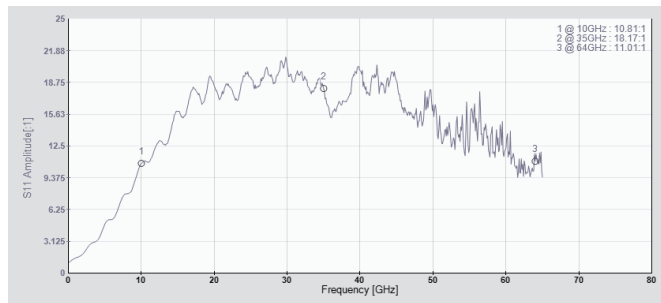


## Dimensions



- 1 Measured at 67 GHz
- 2 Includes packaging and accessories
- 3 Measured at 10:1 VSWR

## Typical VSWR



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