

8515A S-Parameter Test Set, 45 MHz to 26.5 GHz, 3.5 mm

Data Sheet

Frequency Range: 0.045 to 26.5 GHz Test Ports (port 1 or 2) Nominal Operating Power Level: -5 to -25 dBm Connector Type: 3.5 mm, male Impedance, DC Bias: 50 ohm nominal, 500 mA, 40 Vdc maximum Attenuation Range (incident signal) 0 to 90 dB, in 10 dB steps RF Input Connector (rear panel) Max Input Power: +14 dBm Connector Type: 3.5 mm, female Dynamic Range (for transmission measurements) Frequency Range GHz .045 to 2 2 to 8 8 to 20 20 to 26.5

Maximum Power (dBm) Measured at Port 2: +2 +3 +3 -1

Reference Power (dBm) at Port 1 (nominal): -5 -9 -14 -25

Minimum Power (dBm) Measured at Port 2: -101 -102 -101 -99 Receiver Dynamic Range (dB): 103 105 104 100 System Dynamic Range (dB): 96 93 87 74 **Measurement Port Characteristics** Frequency Range (GHz) .045 to 2 2 to 8 8 to 20 20 to 26.5

Residual (dB)

Directivity: 48 50 50 50 Source match: 40 50 50 50 Load match: 48 50 50 50 Reflection Tracking: ±0.003 ±0 ±0 ±0 Transmission Tracking: ±0.009 ±0.004 ±0.009 ±0.01 Crosstalk: 117 114 108 95



Raw (typical) (dB) (before calibration/error correction) Directivity: 24 24 28 27 Source Match: 23 23 16 14 Load Match: 23 23 16 14

