XSA800 Series Spectrum Analyzer Specifications

All technical specifications are guaranteed when the following conditions are met, unless otherwise stated:

- The instrument has been preheated for 30 minutes before use.
- The instrument is in the calibration cycle and has been self-calibrated.

"Typical" and "nominal" for this product are defined as follows

MHz)

- Typical: Refers to the performance of the product under certain conditions.
- Nominal: Refers to the approximate value under product application process.

| Frequency | | | | | |
|----------------------------|---|-----------------------------|----------------------------------|--|--|
| | XSA805 (TG) | 9 kHz to 500.009 MHz | Z | | |
| Frequency Range | XSA810 (TG) 9 kHz to 1.000009 GHz | | | | |
| | XSA815 (TG) 9 kHz to 1.500009 GHz | | | | |
| Frequency Resolution | 1 Hz | | | | |
| Frequency Span | | | | | |
| Span Range | 0 Hz, 100 Hz to max frequency of instrument | | | | |
| Span Uncertainty | ± span / (sweep points-1) | | | | |
| SSB Phase Noise(20° | c to 30℃,fc=1 G | GHz) | | | |
| Carrier Offset | 10 kHz | < -80 dBc/Hz | | | |
| | 100 kHz | < -100 dBc/Hz | | | |
| | 1 MHz | < -115 dBc/Hz | | | |
| Bandwidth | 1 1011 12 | 110 02 371.12 | | | |
| Resolution Bandwidth | 1 Hz to 1 MHz, in 1-3-5-10 sequence | | | | |
| (-3 dB) | • | | | | |
| RBW Accuracy | < 5% typical | | | | |
| Resolution Filter | ar tourism. | | | | |
| Shape Factor (60 dB: | <5 typical | | | | |
| 3 dB) | | | | | |
| Video Bandwidth (-3 dB) | 10 Hz to 1 MHz, in 1-3-5-10 sequence | | | | |
| Amplitude and level | | | | | |
| Amplitude | DANL to +10 dBm,100 kHz to 10 MHz, Preamp Off | | | | |
| measurement range | DANL to +20 dBm,10 MHz to 1.5 GHz, Preamp Off | | | | |
| Reference Level | -80 dBmto+30 d | dBm,0.01dB by step | · | | |
| Preamp | | 100 kHz to 1.5 GHz | | | |
| Input Attenuator | XSA805 (TG) | | | | |
| | XSA810 (TG) 0 to 40 dB,1 dB by step XSA815 (TG) | | | | |
| | | | | | |
| trace average ≥ 50, 20 | ℃ to 30℃, inpu | t impedance = 50Ω) | | | |
| Preamp Off | 9 kHz to 1 MHz | | -95 dBm (Typical), <-88 dBm | | |
| | 1 MHz to 500 MHz | | -140 dBm (Typical), <-130dBm | | |
| | XSA810(TG) | 500 MHz to 1 GHz | -140 dbiii (Typicai), 4-100dbiii | | |
| | ` ′ | 500 MHz to 1.5 GHz | -138 dBm (Typical),<-128 dBm | | |
| | 100 kHz to 1 MHz | | -135 dBm (Typical), <-128 dBm | | |
| Preamp On | 1 MHz to 500 MHz | | -160 dBm (Typical),<-150 dBm | | |
| i icallip Oli | XSA810(TG) | 500 MHz to 1 GHz | -100 dbiii (Typicai),\-130 dbiii | | |
| | XSA815(TG) | 500 MHz to 1.5 GHz | -158 dBm (Typical),<-148 dBm | | |

| <0.7 dB | | | | | |
|--|---|---|--|--|--|
| | | | | | |
| <1.0 dB | | | | | |
| 201 | | | | | |
| | | | | | |
| fc = 50 MHz, peak detector, preamplifier off, attenuation = 10 dB, input signal | | | | | |
| level = -10 dBm, 20 ℃ to 30 ℃ | | | | | |
| < 0.4 dB | | | | | |
| Tracking Generator (optional) | | | | | |
| XSA805 (TG) 100 kHz to 500.009 MHz | | | | | |
| | | z to 1.000009 GHz | | | |
| XSA815 (TG) 100 kHz to 1.500009 GHz | | | | | |
| -40 dBm to 0 dBm | | | | | |
| -40 dbiii to 0 dbiii | | | | | |
| 1 dB | | | | | |
| Relative to 50 MHz | | | | | |
| ± 3 dB | | | | | |
| Harmonic spurious | | -30 dBc (Tracking generator output power -10 | | | |
| | | dBm) | | | |
| Non-harmonic spurious | | -40 dBc (Tracking generator output power -10 | | | |
| | | dBm) | | | |
| | | | | | |
| -60 dB (Tracking generator output power 0 dBm) | | | | | |
| | | | | | |
| | | | | | |
| A Plug | | | | | |
| USB 2.0 | | | | | |
| | | | | | |
| B Plug | | | | | |
| D Plug | | | | | |
| USB 2.0 | | | | | |
| | | | | | |
| | | | | | |
| USB 2.0 | | | | | |
| USB 2.0 TFT LCD 1280*800 | | | | | |
| USB 2.0 TFT LCD 1280*800 9 inches | | | | | |
| USB 2.0 TFT LCD 1280*800 | | | | | |
| USB 2.0 TFT LCD 1280*800 9 inches 65536 | 1 5 | | | | |
| USB 2.0 TFT LCD 1280*800 9 inches 65536 10/100Base,RJ-4 | | | | | |
| USB 2.0 TFT LCD 1280*800 9 inches 65536 10/100Base,RJ-4 Connector A Plug |) | | | | |
| USB 2.0 TFT LCD 1280*800 9 inches 65536 10/100Base,RJ-4 |) | | | | |
| USB 2.0 TFT LCD 1280*800 9 inches 65536 10/100Base,RJ-4 Connector A Plug Protocol Versio |) on 1.4 | () v 120 mm (D) | | | |
| USB 2.0 TFT LCD 1280*800 9 inches 65536 10/100Base,RJ-4 Connector A Plug | g on 1.4 85 mm (H | , , , | | | |
| | fc = 50 MHz, pea level = -10 dBm, < 0.4 dB ptional) XSA805 (TG) XSA810 (TG) XSA815 (TG) -40 dBm to 0 dBr 1 dB Relative to 50 MH ± 3 dB Harmonic spuriou Non-harmonic sp | fc = 50 MHz, peak detects level = -10 dBm, 20°C to 3 < 0.4 dB ptional) XSA805 (TG) 100 kHz XSA810 (TG) 100 kHz XSA815 (TG) 100 kHz -40 dBm to 0 dBm 1 dB Relative to 50 MHz ± 3 dB Harmonic spurious Non-harmonic spurious -60 dB (Tracking generated) A Plug | | | |

