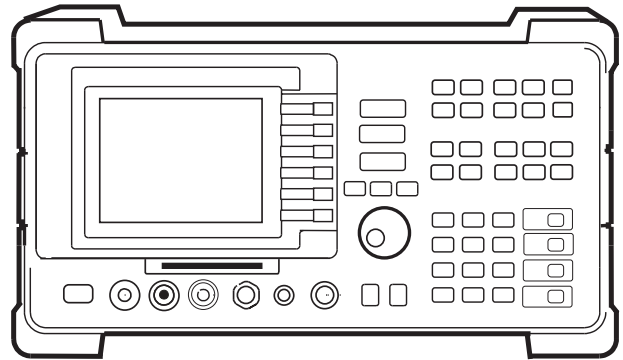




Agilent 8590 E-Series Portable Spectrum Analyzers

Data Sheet



These specifications apply to the Agilent Technologies 8591E, 8593E, 8594E, 8595E, and 8596E spectrum analyzers.

Specifications

All specifications apply over 0°C to +55°C. The analyzer will meet its specifications after 2 hours of storage at a constant temperature, within the operating temperature range, 30 minutes after the analyzer is turned on, and after CAL FREQ and CAL AMPTD (and for the 8593E, 8595E, and 8596E CAL YTF) have been run.

Frequency Specifications

Frequency Range

8591E

| | |
|------|------------------|
| 50 Ω | 9 kHz to 1.8 GHz |
| 75 Ω | 1 MHz to 1.8 GHz |

8593E

9 kHz to 22 GHz

Option 026/027 9 kHz to 26.5 GHz

Band LO harmonic = N

| | | |
|---|------------------|----------------------|
| 0 | 1 | 9 kHz to 2.9 GHz |
| 1 | 1 | 2.75 GHz to 6.5 GHz |
| 2 | 2 | 6.0 GHz to 12.8 GHz |
| 3 | 3 | 12.4 GHz to 19.4 GHz |
| 4 | 4 | 19.1 GHz to 22.0 GHz |
| 4 | 4 (Opt. 026/027) | 19.1 GHz to 26.5 GHz |

8594E

| | |
|------------|--------------------|
| dc coupled | 9 kHz to 2.9 GHz |
| ac coupled | 100 kHz to 2.9 GHz |

8595E

| | |
|------------|--------------------|
| dc coupled | 9 kHz to 6.5 GHz |
| ac coupled | 100 kHz to 6.5 GHz |

8596E

| | |
|------------|---------------------|
| dc coupled | 9 kHz to 12.8 GHz |
| ac coupled | 100 kHz to 12.8 GHz |

Band LO harmonic = N

| | | |
|---|---|---------------------------------|
| 0 | 1 | 9 kHz to 2.9 GHz (dc coupled) |
| 0 | 1 | 100 kHz to 2.9 GHz (ac coupled) |
| 1 | 1 | 2.75 GHz to 6.5 GHz |
| 2 | 2 | 6.0 GHz to 12.8 GHz |

Frequency Reference

| | | |
|-----------------------------|-----------------------------|---|
| Aging | ±2 × 10 ⁻⁶ /year | (Opt. 004) ±1 × 10 ⁻⁷ /year |
| Temperature Stability | ±5 × 10 ⁻⁶ | ±1 × 10 ⁻⁸ |
| Initial Achievable Accuracy | ±0.5 × 10 ⁻⁶ | ±2.2 × 10 ⁻⁸ |



Agilent Technologies

Innovating the HP Way

Frequency Readout

Accuracy

(Start, Stop, Center, Marker) $\pm(\text{frequency readout} \times \text{frequency reference error}^1 + \text{span accuracy} + 1\% \text{ of span} + 20\% \text{ of RBW} + 100 \text{ Hz} \times N^*)$

Marker Count Accuracy

Frequency Span $\leq 10 \text{ MHz} \times N^*$ $\pm(\text{marker frequency} \times \text{frequency reference error}^1 + \text{counter resolution} + 100 \text{ Hz} \times N^*)$

Frequency Span $> 10 \text{ MHz} \times N^*$ $\pm(\text{marker frequency} \times \text{frequency reference error}^1 + \text{counter resolution} + 1 \text{ kHz} \times N^*)$

Counter Resolution

Frequency Span $\leq 10 \text{ MHz} \times N^*$ Selectable from 10 Hz to 100 kHz

Frequency Span $> 10 \text{ MHz} \times N^*$ Selectable from 100 Hz to 100 kHz

Frequency Span

Range 0 Hz (zero span), and

| | Opt. 130 | Std. | |
|-------|----------|---------|-------|
| | Min. | Min. | Max |
| | (KHz) | (KHz) | (GHz) |
| 8591E | 1 | 10 | 1.8 |
| 8593E | 1 x N* | 10 x N* | 19.25 |
| 8594E | 1 | 10 | 2.9 |
| 8595E | 1 | 10 | 6.5 |
| 8596E | 1 x N* | 10 x N* | 12.8 |

Resolution Four digits or 20 Hz x N* whichever is greater

Accuracy

Span $\leq 10 \text{ MHz} \times N^*$ $\pm 2\%$ of span

Span $> 10 \text{ MHz} \times N^*$ $\pm 3\%$ of span

Frequency Sweep Time

Range

Span = 0 Hz, $> 1 \text{ kHz}$ 20 ms to 100 s

Span = 0 Hz (Opt. 101) 20 μs to 100 s

Accuracy

20 ms to 100 s $\pm 3\%$

20 μs to $< 20 \text{ ms}$ (Opt. 101) $\pm 2\%$

Sweep Trigger

Free run, single, line, video, external

Resolution Bandwidth

1 kHz to 3 MHz (3 dB) in 1-3-10 sequence.

9 kHz and 120 kHz (6 dB) EMI bandwidths.

Option 130 Adds 30, 100, and 300 Hz (3 dB) bandwidths and 200 Hz (6 dB) EMI bandwidth.

Accuracy $\pm 20\%$

Selectivity (Characteristic)

-60 dB/-3 dB

3 kHz to 10 kHz 15:1

100 kHz to 3 MHz 15:1

1 kHz, 30 kHz 16:1

-40 dB/-3 dB

30 Hz to 300 Hz 10:1

Video Bandwidth Range 30 Hz to 1 MHz in 1,3 sequence
1 Hz to 1 MHz (Opt 130)

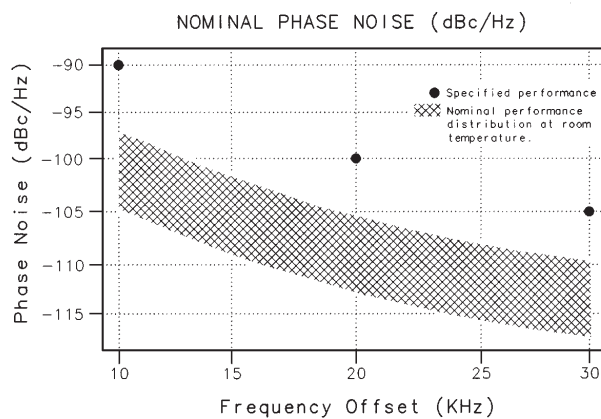
Stability

Noise Sidebands (1 kHz RBW, 30 Hz VBW and sample detector)

$> 10 \text{ kHz}$ offset from CW signal $\leq -90 \text{ dBc/Hz} + 20 \text{ Log } N^*$

$> 20 \text{ kHz}$ offset from CW signal $\leq -100 \text{ dBc/Hz} + 20 \text{ Log } N^*$

$> 30 \text{ kHz}$ offset from CW signal $< -105 \text{ dBc/Hz} + 20 \text{ Log } N^*$



Residual FM

8591E

1 kHz RBW, 1 kHz VBW $\leq 250 \text{ Hz pk-pk}$ in 100 ms

30 Hz RBW, 30 Hz VBW $\leq 30 \text{ Hz pk-pk}$ in 300 ms

8593E, 94E, 95E, 96E

1 kHz RBW, 1 kHz VBW $\leq (250 \times N^*) \text{ Hz pk-pk}$ in 100 ms

30 Hz RBW, 30 Hz VBW $\leq (30 \times N^*) \text{ Hz pk-pk}$ in 300 ms

System-Related Sidebands

$> 30 \text{ kHz}$ offset from CW signal $\leq -65 \text{ dBc} + 20 \text{ Log } N^*$

Comb Generator Frequency

8593E, 96E

100 MHz fundamental frequency

Accuracy

$\pm 0.007\%$

* N = LO harmonic. N = 1 for 91E, 94E, 95E

1. Frequency reference error = (aging rate x period of time since adjustment + initial achievable accuracy + temperature stability).

Amplitude Specifications

Amplitude specifications do not apply for Analog+ mode and negative peak detector mode except as noted in “Amplitude Characteristics.”

Amplitude Range

| | |
|------------------|---|
| | Displayed average noise level to +30 dBm |
| 8591E (Opt. 001) | Displayed average noise level to +72 dBmV |

Maximum Safe Input Level

| | |
|--------------------------|--|
| | (input attenuator ≥ 10 dB) |
| Average Continuous Power | +30 dBm (1 W) |
| 8591E (Opt. 001) | +72 dBmV (0.2 W) |
| Peak Pulse Power | |
| 8591E | +30 dBm (1 W) |
| 8591E (Opt. 001) | +72 dBmV (0.2 W) |
| 8593E, 94E, 95E, 96E | +50 dBm (100 W) for $< 10 \mu\text{s}$ pulse width and $< 1\%$ duty cycle, input attenuation ≥ 30 dB. |
| dc | |
| 8591E | 25 Vdc |
| 8591E (Opt. 001) | 100 Vdc |
| 8593E | 0 Vdc |
| 8594E, 95E, 96E | 0 V (dc coupled) 50 V (ac coupled) |

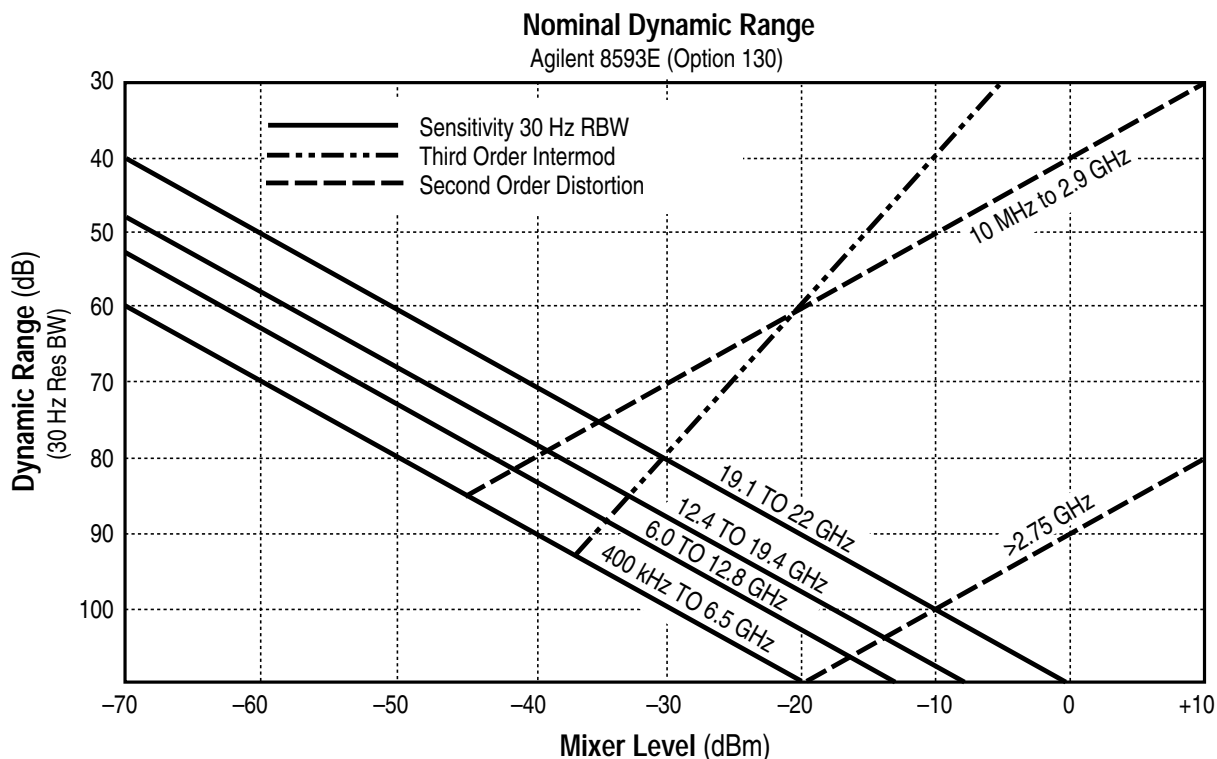
Gain Compression

> 10 MHz ≤ 0.5 dB (total power at input mixer² = -10 dBm)

Displayed Average Noise Level

(Input terminated, 0 dB attenuation, 1 Hz/30 Hz VBW, sample-detector)

| | 30 Hz RBW | 1 kHz RBW |
|----------------------|-----------------|-----------------|
| 8591E | | |
| 400 kHz to 1 MHz | ≤ -130 dBm | ≤ -115 dBm |
| 1 MHz to 1.5 GHz | ≤ -130 dBm | ≤ -115 dBm |
| 1.5 GHz to 1.8 GHz | ≤ -128 dBm | ≤ -113 dBm |
| 8591E (Opt. 001) | | |
| 1 MHz to 1.5 GHz | ≤ -78 dBmV | ≤ -63 dBmV |
| 1.5 GHz to 1.8 GHz | ≤ -76 dBmV | ≤ -61 dBmV |
| 8593E | | |
| 400 kHz to 2.9 GHz | ≤ -127 dBm | ≤ -112 dBm |
| 2.75 GHz to 6.5 GHz | ≤ -129 dBm | ≤ -114 dBm |
| 6.0 GHz to 12.8 GHz | ≤ -117 dBm | ≤ -102 dBm |
| 12.4 GHz to 19.4 GHz | ≤ -113 dBm | ≤ -98 dBm |
| 19.1 GHz to 22 GHz | ≤ -107 dBm | ≤ -92 dBm |
| 8593E (Opt. 026/027) | | |
| 19.1 GHz to 26.5 GHz | ≤ -102 dBm | ≤ -87 dBm |
| 8594E | | |
| 400 kHz to < 5 MHz | ≤ -122 dBm | ≤ -107 dBm |
| 5 MHz to 2.9 GHz | ≤ -127 dBm | ≤ -112 dBm |
| 8595E | | |
| 400 kHz to 2.9 GHz | ≤ -125 dBm | ≤ -110 dBm |
| 2.75 GHz to 6.5 GHz | ≤ -127 dBm | ≤ -112 dBm |
| 8596E | | |
| 400 kHz to 2.9 GHz | ≤ -125 dBm | ≤ -110 dBm |
| 2.75 GHz to 6.5 GHz | ≤ -127 dBm | ≤ -112 dBm |
| 6.0 GHz to 12.8 GHz | ≤ -115 dBm | ≤ -100 dBm |



2. Mixer Power Level (dBm) = Input Power (dBm) Input Atten. (dB)

Spurious Responses

| | |
|--|--|
| Second Harmonic Distortion | |
| 5 MHz to 1.8 GHz (91E) | <-70 dBc for -45 dBm tone at input mixer. ² |
| 10 MHz to 2.9 GHz (93E) | <-70 dBc for -40 dBm tone at input mixer. ² |
| >10 MHz (94E, 95E, 96E) | |
| >2.75 GHz (93E, 95E, 96E) | <-100 dBc for -10 dBm tone at input mixer ² (or below displayed average noise level). |
| Third Order Intermodulation Distortion | |
| 5 MHz to 1.8 GHz (91E) | <-70 dBc for two -30 dBm tones at input mixer ² and >50 kHz separation. |
| >10 MHz (93E, 94E, 95E, 96E) | |
| Other Input Related Spurious | |
| ≤1.8 GHz (91E) | <-65 dBc at ≥30 kHz offset, for |
| ≤2.9 GHz (94E) | -20 dBm tone at input mixer ² |
| ≤6.5 GHz (95E) | |
| ≤12.8 GHz (96E) | |
| ≤18 GHz (93E) | |
| ≤22 GHz (93E) | <-60 dBc at ≥30 kHz offset, for |
| | -20 dBm tone at input mixer ² |

Residual Responses (input terminated and 0 dB attenuation)

| | |
|--------------------------|-----------|
| 1 MHz to 1.8 GHz | |
| (91E Opt. 001) | <-38 dBmV |
| 150 kHz to 1.8 GHz (91E) | <-90 dBm |
| 150 kHz to 2.9 GHz (94E) | <-90 dBm |
| 150 kHz to 6.5 GHz | <-90 dBm |
| (93E, 95E, 96E) | |

Display Range

| | |
|--------------|---|
| Log Scale | 0 to -70 dB from reference level is calibrated; 0.1, 0.2, 0.5 dB/division and 1 to 20 dB/division in 1 dB steps; eight divisions displayed. |
| Linear Scale | Eight divisions |
| Scale units | dBm, dBmV, dBuV, V, and W |

| | |
|----------------------------------|---|
| Marker Readout Resolution | 0.05 dB for log scale |
| | 0.05% of reference level for linear scale |

| | |
|--|--|
| Fast Sweep Times for Zero Span (Opt. 101 or 301) | |
| 20 μs to 20 ms | |
| ≤1 GHz | 0.7% of reference level for linear scale |
| >1 GHz | 1.0% of reference level for linear scale |

Reference Level

| | |
|------------|---|
| Range | same as amplitude range |
| Resolution | 0.1 dB for log scale, 0.12% of reference level for linear scale |
| Accuracy | ±0.3 dB @ -20 dBm |
| | ±(0.3 dB + 0.01 x dB from -20 dBm) |

Frequency Response

| | |
|------------------------|--|
| | (10 dB input attenuation) |
| <i>8591E</i> | Absolute ³ Relative Flatness ⁴ |
| 9 kHz to 1.8 GHz | ±1.5 dB ±1.0 dB |
| <i>8593E</i> | Preselector peaked in band > 0 |
| | Absolute ³ Relative Flatness ⁴ |
| 9 kHz to 2.9 GHz | ±1.5 dB ±1.0 dB |
| 2.75 GHz to 6.5 GHz | ±2.0 dB ±1.5 dB |
| 6.0 GHz to 12.8 GHz | ±2.5 dB ±2.0 dB |
| 12.4 GHz to 19.4 GHz | ±3.0 dB ±2.0 dB |
| 19.1 GHz to 22 GHz | ±3.0 dB ±2.0 dB |
| 19.1 GHz to 26.5 GHz | ±5.0 dB ±2.0 dB |
| <i>8594E, 95E, 96E</i> | (dc coupled preselector peaked) |
| | Absolute ³ Relative Flatness ⁴ |
| 9 kHz to 2.9 GHz | ±1.5 dB ±1.0 dB |
| 2.75 GHz to 6.5 GHz | ±2.0 dB ±1.5 dB |
| 6.0 GHz to 12.8 GHz | ±2.5 dB ±2.0 dB |

Calibrator Output

| | |
|----------------------|---------------------|
| Amplitude | -20 dBm ±0.4 dB |
| <i>8591E Opt.001</i> | +28.75 dBmV ±0.4 dB |

Resolution Bandwidth

Switching Uncertainty

(Referenced to 3 kHz RBW, at ref. level)

| | |
|---------------------|---------|
| 3 kHz to 3 MHz RBW | ±0.4 dB |
| 1 kHz RBW | ±0.5 dB |
| 30 Hz to 300 Hz RBW | ±0.6 dB |

| | |
|--------------------------------|-----------------------------|
| Linear to Log Switching | ±0.25 dB at reference level |
|--------------------------------|-----------------------------|

Display Scale Fidelity

| | |
|----------------------------------|--|
| Log Maximum Cumulative | |
| 0 to -70 dB from reference level | |
| 3 kHz to 3 MHz RBW | ± (0.3 + 0.01 x dB from reference level) |
| 30 Hz to 1kHz RBW | ± (0.4 + 0.01 x dB from reference level) |
| Log Incremental Accuracy | ±0.4 dB/4 dB |
| 0 to -60 dB from reference level | |
| Linear Accuracy | ±3% of reference level |

3. Referenced to 300 MHz CAL OUT.

4. Ref. to midpoint between highest and lowest freq. response deviations.

Option Specifications

Option 010 and 011 Tracking Generator

Frequency Range

| | |
|----------------------|--------------------|
| 8591E | 100 kHz to 1.8 GHz |
| (Opt. 011, 75 Ω) | 1 MHz to 1.8 GHz |
| 8593E, 94E, 95E, 96E | 9 kHz to 2.9 GHz |

Output Level

Range

| | |
|----------------------|---------------------|
| 8591E | 0 to -70 dBm |
| 8591E (Opt. 011) | +42.8 to -27.2 dBmV |
| 8593E, 94E, 95E, 96E | -1 to -66 dBm |

Resolution

0.1 dB

Absolute Accuracy

(@ 300 MHz, -20 dBm, +28.8 dBmV)

| | |
|----------------------|----------|
| 8591E | ±1.0 dB |
| 8593E, 94E, 95E, 96E | ±0.75 dB |

Vernier

Range

| | |
|----------------------|-------|
| 8591E | 10 dB |
| 8593E, 94E, 95E, 96E | 9 dB |

Accuracy

| | |
|----------------------|----------|
| 8591E | ±0.75 dB |
| 8593E, 94E, 95E, 96E | ±0.5 dB |

Output Attenuator

Range

| | |
|----------------------|-------------------------|
| 8591E | 0 to 60 dB, 10 dB steps |
| 8593E, 94E, 95E, 96E | 0 to 56 dB, 8 dB steps |

Output Flatness

| | |
|-----------------------------------|----------|
| 8591E | ±1.75 dB |
| 8593E, 94E, 95E, 96E (>10 MHz) | ±2.0 dB |

Effective Source Match (Characteristic)

| | |
|----------------------|---------------------------|
| 8591E | 1.6:1 (10 dB attenuation) |
| 8593E, 94E, 95E, 96E | 1.5:1 (8 dB attenuation) |

Spurious Output

Harmonic Spurs

| | |
|---|----------|
| 8591E (0 dBm, +42.8 dBmV output) | <-25 dBc |
| 8593E, 94E, 95E, 96E (-1 dBm Output) | |

Nonharmonic Spurs

| | |
|----------------------|----------|
| 8591E | <-30 dBc |
| 8593E, 94E, 95E, 96E | |
| 300 kHz to 2.0 GHz | ≤-27 dBc |
| 2.0 GHz to 2.9 GHz | ≤-23 dBc |

Dynamic Range (Characteristic)

| | Dynamic Range ⁵ | TG Feedthrough |
|-------------------|----------------------------|----------------|
| 8591E | 106 dB | ≤-106 dBm |
| 8591E (Opt. 011) | 100 dB | ≤-57.24 dBmV |
| 8593E (> 400 kHz) | 111 dB | ≤-112 dBm |
| 8594E (> 400 kHz) | 106 dB | ≤-107 dBm |
| (> 5 MHz) | 111 dB | ≤-112 dBm |
| 8595E (>400 kHz) | 109 dB | ≤-110 dBm |
| 8596E (> 400 kHz) | 109 dB | ≤-110 dBm |

Power Sweep

Range

| | |
|----------------------|--|
| 8591E | (-15 dBm to 0 dBm) –(source attenuator setting) |
| 8591E (Opt 011) | (+27.8 to 42.8 dBmV)–(source attenuator setting) |
| 8593E, 94E, 95E, 96E | (-10 dBm to -1 dBm)–(source attenuator setting) |

Resolution

0.1 dB

Option 103 Quasi-Peak Detector

Amplitude response conforms with Publication 16 of Comité International Spécial des Perturbations Radioélectriques (CISPR) Section 1, Clause 2.

Option 105 Time Gated Spectrum Analysis

Gate Delay

| | |
|------------|--|
| Range | 1 μs to 65.535 ms |
| Resolution | 1 μs |
| Accuracy | ±(1 μs + 0.01% x Gate Delay Readout) ⁶ (From Gate Trigger Input to positive edge of Gate Output) |

Gate Length

| | |
|------------|---|
| Range | 1 μs to 65.535 ms |
| Resolution | 1 μs |
| Accuracy | ±(0.2 μs + (0.01% x Gate Length Readout)) |

(From positive edge to negative edge of Gate Output)

Additional Gate Amplitude Error⁷

| | | |
|-----------|-------|---------|
| Log Scale | <2 μs | ±0.8 dB |
| | ≥2 μs | ±0.5 dB |

General Specifications

Temperature Range

| | |
|-----------|----------------|
| Operating | 0°C to +55°C |
| Storage | -40°C to +75°C |

EMI Compatibility

Conducted and radiated interference CISPR Pub. 11 and Messempefaenger Postverfuegung 526/527/79.

Audible Noise

<37.5 dBa pressure and <5.0 Bels power (ISODP7779)

5. Maximum output level minus TG feedthrough.

6. Up to 1 V_s jitter due to 1 μs resolution of gate delay clock.

7. With GATE ON enabled and triggered, CW Signal, Peak Detector Mode.

Power Requirements

| | |
|------------------|---|
| ON (Line 1) | 90 to 132 V rms, 47 to 440 Hz 195 to 250 V rms, 47 to 66 Hz Power consumption <500 VA; <180W |
| Standby (Line 0) | Power consumption <7 W |

User Program Memory

238 Kbytes non-volatile RAM

Data Storage (nominal)

| | |
|----------------------|------------------------|
| Internal | 24 traces or 32 states |
| External | 50 traces, 8 states |
| Memory card (85700A) | 32 Kbytes |

Inputs/Outputs

Front Panel Connectors

| | |
|------------------|---|
| Input | 50 Ω Type N |
| (Opt 001) | 75 Ω BNC female |
| (Opt 026) | APC 3.5 mm male |
| (Opt 027) | 50 Ω Type N female |
| Cal Output | 50 Ω BNC, -20 dBm, 300 MHz |
| 100 MHz Comb Out | 100 MHz \pm 0.007%, SMA |
| Probe Power | +15 Vdc, -12.6 Vdc, and Gnd (150mA max each) |

Rear Panel Connectors

| | |
|--|--|
| Earphone (Opt 102 and 103) | 1/8 inch monaural jack |
| LO Output (Opt 009) | 50 Ω SMA Female, 3.0 to 6.8214 GHz |
| TV Trigger Output (Opt 101 and 102) | BNC, TTL levels, negative edge trigger after sync pulse |
| Gate Trigger Input (Opt 105) | 50 Ω BNC, Pulsewidth >30 ns (TTL) |
| Gate Output (Opt 105) | 50 Ω BNC (TTL) |
| SWEEP + Tune Output (Opt 009) | 2 k Ω BNC, 0 to +10V, 0.36V/GHz of CF |
| Ext. ALC Input 1 MW, | -66 dBV to +6 dBV |
| Sweep Output | BNC, 5 k W, 0 to +10 V ramp |
| High Sweep In/Out | BNC, high TTL = sweep, low TTL = Retrace |
| Aux Video Out | 50 Ω BNC, 0-1 V Uncalibrated |
| Aux IF Output | 50 Ω BNC, -10 to -60 dBm, 21.4 MHz |

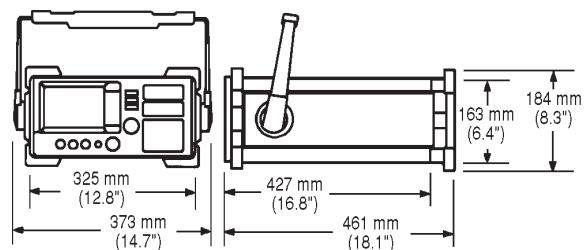
| | |
|----------------------------------|--|
| Keyboard (Opt. 041 or 043) | 5 Pin mini-DIN, compatible with HP C1405B and most IBM/AT key boards |
| Ext. Trigger Input | BNC, TTL levels, positive edge trigger |
| GPIB and Parallel (Opt 041) | SH1, AH1, T6, L4, ST1, RL1, PPO, DC1, C1 C2, C3, & C28 and 25 Pin subminiature D-shell female for parallel |
| RS-232 and Parallel (Opt 043) | 9 Pin subminiature D-shell female and 25 Pin subminiature D-shell female for parallel |
| Ext Ref In | 50 Ω BNC, 10 MHz, -2 to +10 dBm |
| 10 MHz Ref Output | 50 Ω BNC, 10 MHz, 0 dBm |
| Aux Interface | 9 pin "D" subminiature Pin 1-4, TTL Output Pin 5 TTL Input Pin 6 Gnd Pin 7 -15 vdc \pm 5%; 150 mA max Pin 8 +5 vdc \pm 5%; 150 mA max Pin 9 +15 vdc \pm 5%; 150 mA max |
| Monitor Out Selectable Format | 50 Ω BNC, NTSC, 15.75 kHz, 60 Hz PAL, 15.625 kHz, 50 Hz |

Dimensions (Nominal)

| | |
|-------------------------------------|---|
| (Without handle, feet, or cover) | 163 mm (H) x 325 mm (W) x 427 mm (D) |
| (Overall) | 184 mm (H) x 373 mm (W) X 461 mm (D) |

Weight (Nominal)

| | |
|-------|-----------------|
| 8591E | 15.4 kg (34 lb) |
| 8593E | 16.4 kg (36 lb) |
| 8594E | 16.4 kg (36 lb) |
| 8595E | 16.4 kg (36 lb) |
| 8596E | 16.4 kg (36 lb) |



Related Literature

General Purpose Information

| | Pub. Number |
|--|-------------|
| Agilent 8590L and 8592L Product Overview | 5962-7275E |
| Agilent 8590C/E/L and EM Series Configuration Guide | 5963-6858E |
| Agilent 8590 E-Series Brochure | 5963-6908E |

Product Feature Briefs

| | |
|---|------------|
| Analog + Display | 5091-4054E |
| Transmitter Power Measurements (ACP, OBW) | 5091-4055E |
| Zoom Window | 5091-4051E |
| Measuring AM with FFT | 5091-4049E |
| Time Gated Spectrum Analysis | 5091-4053E |
| Editing Keyboard | 5091-4048E |
| Marker and Peaks Table | 5091-4050E |
| Third Order Intermodulation, N & B Bandwidth, and Percent AM | 5091-4052E |

Product Notes

| | |
|---|------------|
| Time-Gated Spectrum Analysis (Agilent 8590-2) | 5952-3685 |
| Analog + Display | 5091-2364E |
| Maximizing Accuracy in Noise Figure Measurements (Agilent 85791-1) | 5091-4801E |

Application Notes

| | |
|--|------------------------|
| Spectrum Analysis Basics (150) Amplitude and Frequency Modulation (150)-1) | 5952-0292 5954-9130 |
|--|------------------------|

Agilent Technologies' Test and Measurement Support, Services, and Assistance

Agilent Technologies aims to maximize the value you receive, while minimizing your risk and problems. We strive to ensure that you get the test and measurement capabilities you paid for and obtain the support you need. Our extensive support resources and services can help you choose the right Agilent products for your applications and apply them successfully. Every instrument and system we sell has a global warranty. Support is available for at least five years beyond the production life of the product. Two concepts underlie Agilent's overall support policy: "Our Promise" and "Your Advantage."

Our Promise

"Our Promise" means your Agilent test and measurement equipment will meet its advertised performance and functionality. When you are choosing new equipment, we will help you with product information, including realistic performance specifications and practical recommendations from experienced test engineers. When you use Agilent equipment, we can verify that it works properly, help with product operation, and provide basic measurement assistance for the use of specified capabilities, at no extra cost upon request. Many self-help tools are available.

Your Advantage

"Your Advantage" means that Agilent offers a wide range of additional expert test and measurement services, which you can purchase according to your unique technical and business needs. Solve problems efficiently and gain a competitive edge by contracting with us for calibration, extra-cost upgrades, out-of-warranty repairs, and on-site education and training, as well as design, system integration, project management, and other professional services. Experienced Agilent engineers and technicians worldwide can help you maximize your productivity, optimize the return on investment of your Agilent instruments and systems, and obtain dependable measurement accuracy for the life of those products.

Get assistance with all your test and measurement needs at:
www.agilent.com/find/assist

Product specifications and descriptions in this document subject to change without notice.

Copyright © 1996, 2000 Agilent Technologies
Printed in U.S.A. 5/00
5963-6909E



Agilent Technologies

Innovating the HP Way