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Specifications for the HP 8591A

Table 1-1. HP 8591A Specifications (1 of 5)

GENERAL 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 have been run.	
Temperature Range Operating Storage	0°C to +55°C -40°C to +75°C
EMI Compatibility	Conducted and radiated interference CISPR Pub. 11 and Mesempfaenger Postverfuegung 526/527/79
Audible Noise	<37.5 dBA pressure and <5.0 Bels power (ISODP7779)
Power Requirements ON (LINE 1) Standby (LINE 0)	86 to 127, or 195 to 250 V rms, 47 to 66 Hz 103 to 126 V rms, 400 Hz ±10% Power consumption <300 VA Power consumption <7 watts
FREQUENCY SPECIFICATIONS	
Frequency Range 50Ω 75Ω (Option 001)	9 kHz to 1.8 GHz 1 MHz to 1.8 GHz
Frequency Reference Aging Settability Temperature Stability	±1 × 10 ⁻⁷ /day ±2 × 10 ⁻⁶ /year ±0.5 × 10 ⁻⁶ ±5 × 10 ⁻⁶
Precision Freq. Reference (Option 004) Aging Settability Temperature Stability	±1 × 10 ⁻⁷ /year ±1 × 10 ⁻⁸ ±1 × 10 ⁻⁸

Table 1-1. HP 8591A Specifications (2 of 5)

FREQUENCY SPECIFICATIONS (Continued)													
Frequency Accuracy Readout Accuracy (Start, Stop, Center, Marker)	$\pm(\text{frequency readout} \times \text{frequency reference error}^* + 3\% \text{ of span} + 20\% \text{ of RBW} + 1.5 \text{ kHz})$												
Marker Count Accuracy Frequency Span ≤ 10 MHz	(Signal-to-Noise ratio ≥ 25 dB, RBW/span ≥ 0.01) $\pm(\text{marker frequency} \times \text{frequency reference error}^* + \text{counter resolution} + 100 \text{ Hz})$												
Frequency Span > 10 MHz	$\pm(\text{marker frequency} \times \text{frequency reference error}^* + \text{counter resolution} + 1 \text{ kHz})$												
Counter Resolution	Selectable from 10 Hz to 100 kHz												
Frequency Span Range Resolution Accuracy	0 Hz (zero span), 10 kHz to 1.8 GHz 4 digits $\pm 2\%$ of span, spans ≤ 10 MHz $\pm 3\%$ of span, spans > 10 MHz												
Frequency Sweep Time Range Span=0 Hz Span=0 Hz (<i>Option 101</i>) Span > 10 kHz Accuracy 20 ms to 100 s 20 μ s to < 20 ms (<i>Option 101</i>) Sweep Trigger	20 ms to 100 s 20 μ s to 100 s 20 ms to 100 s $\pm 3\%$ $\pm 2\%$ Free run, Single, Line, Video, External												
Stability Noise Sidebands	≤ -95 dBc/Hz at > 30 kHz offset from CW signal (1 kHz RBW, 30 Hz VBW, and sample detector)												
Residual FM System Related Sidebands	< 250 Hz pk-pk in 100 ms (1 kHz RBW, 1 kHz VBW) < -65 dBc at > 30 kHz offset from CW signal												
AMPLITUDE SPECIFICATIONS													
Amplitude Range 50 Ω 75 Ω (<i>Option 001</i>)	-115 dBm to $+30$ dBm -63 dBmV to $+75$ dBmV												
Maximum Safe Input Level	(Input Atten ≥ 10 dB)												
Average Continuous Power Peak Pulse Power dc	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"></td> <td style="text-align: center;">50Ω</td> <td style="text-align: center;">75Ω (<i>Option 001</i>)</td> </tr> <tr> <td></td> <td style="text-align: center;">$+30$ dBm (1 watt)</td> <td style="text-align: center;">$+75$ dBmV (0.4 watts)</td> </tr> <tr> <td></td> <td style="text-align: center;">$+30$ dBm (1 watt)</td> <td style="text-align: center;">$+75$ dBmV (0.4 watts)</td> </tr> <tr> <td></td> <td style="text-align: center;">25 V dc</td> <td style="text-align: center;">100 V dc</td> </tr> </table>		50Ω	75Ω (<i>Option 001</i>)		$+30$ dBm (1 watt)	$+75$ dBmV (0.4 watts)		$+30$ dBm (1 watt)	$+75$ dBmV (0.4 watts)		25 V dc	100 V dc
	50Ω	75Ω (<i>Option 001</i>)											
	$+30$ dBm (1 watt)	$+75$ dBmV (0.4 watts)											
	$+30$ dBm (1 watt)	$+75$ dBmV (0.4 watts)											
	25 V dc	100 V dc											
* Frequency Reference Error = (aging rate \times period of time since adjustment + initial achievable accuracy + temperature stability) See Table 1-2.													

Table 1-1. HP 8591A Specifications (3 of 5)

AMPLITUDE SPECIFICATIONS (continued)	
Gain Compression >10 MHz	≤0.5 dB (total power at input mixer* = -10 dBm)
Displayed Average Noise Level 400 kHz to 1 MHz 1 MHz to 1.5 GHz 1.5 GHz to 1.8 GHz	(Input terminated, 0 dB attenuation, 1 kHz RBW, 30 Hz VBW, sample detector) 50Ω 75Ω (Option 001) ≤-115 dBm N/A ≤-115 dBm ≤-63 dBmV ≤-113 dBm ≤-61 dBmV
Spurious Responses Second Harmonic Distortion 5 MHz to 1.8 GHz Third Order Intermodulation Distortion 5 MHz to 1.8 GHz Other Input Related Spurious	<-70 dBc for -45 dBm tone power at input mixer* <-70 dBc for two -30 dBm tones at input mixer* and >50 kHz separation <-65 dBc for ≥30 kHz offset from CW signal
Residual Responses 150 kHz to 1 MHz 1 MHz to 1.8 GHz	(Input terminated and 0 dB attenuation) 50Ω 75Ω (Option 001) <-90 dBm N/A <-90 dBm <-38 dBmV
Display Range Log Scale Linear Scale Scale Units Marker Readout Resolution Fast Sweep Times for Zero Span 20 μs to 20 ms (Option 101)	0 to -70 dB from reference level is calibrated; 1 to 20 dB/division in 1 dB steps; 8 divisions displayed 8 divisions dBm, dBmV, dBμV, volts and watts 0.05 dB for log scale 0.05% of reference level for linear scale 0.7% of reference level for linear scale
* Mixer Power Level (dBm) = Input Power (dBm) - Input Attenuator (dB).	

Table 1-1. HP 8591A Specifications (4 of 5)

AMPLITUDE SPECIFICATIONS (Continued)	
Reference Level Range 50Ω 75Ω (<i>Option 001</i>) Resolution Accuracy 0 dBm to -59.9 dBm -60 dBm to -115 dBm	-115 dBm to +30 dBm -63 dBmV to +75 dBmV 0.01 dB for log scale 0.12% of reference level for linear scale (Referred to -20 dBm Reference Level) ±(0.5 dB + Input Attenuator Accuracy at 50 MHz) ±(1.25 dB + Input Attenuator Accuracy at 50 MHz)
Frequency Response Absolute Relative Flatness	(10 dB input attenuation) ±1.5 dB, referred to 300 MHz CAL OUT ±1.0 dB, referred to midpoint between highest and lowest frequency response deviations
Calibrator Output Frequency Amplitude 50Ω 75Ω (<i>Option 001</i>)	300 MHz ± (300 MHz × frequency reference error)* -20 dBm ±0.4 dB +28.75 dBmV ±0.4 dB
Input Attenuator Range Accuracy 20 to 50 dB 60 dB	0 to 60 dB, in 10 dB steps ±0.5 dB at 50 MHz, referred to 10 dB attenuation ±0.75 dB at 50 MHz, referred to 10 dB attenuation
Resolution Bandwidth Switching Uncertainty 3 kHz to 3 MHz RBW 1 kHz	(Referred to 3 kHz RBW) ±0.4 dB ±0.5 dB
Log to Linear Switching	±0.25 dB at reference level
Display Scale Fidelity Log Incremental Accuracy Log Maximum Cumulative Linear Accuracy	±0.2 dB/2 dB, 0 to -70 dB from reference level ±0.75 dB, 0 to -60 dB from reference level ±1.0 dB, 0 to -70 dB from reference level ±3% of reference level
* Frequency Reference Error = (aging rate × period of time since adjustment + initial achievable accuracy + temperature stability) See Table 1-2.	

Table 1-1. HP 8591A Specifications (5 of 5)

TRACKING GENERATOR SPECIFICATIONS	
All specifications apply over 0°C to +55°C. The spectrum-analyzer/tracking-generator combination will meet its specifications after 2 hours of storage at a constant temperature within the operating temperature range, 30 minutes after the spectrum-analyzer/tracking-generator is turned on and after CAL FREQ, CAL AMPTD, and CAL TRK GEN have been run.	
Warm-up	30 minutes
Output Frequency Range, 50Ω, Option 010 75Ω, Option 011	100 kHz to 1.8 GHz 1 MHz to 1.8 GHz
Output Power Level Range, 50Ω, Option 010 75Ω, Option 011 Resolution Absolute Accuracy Vernier Range Accuracy Output Attenuator Range Switching Accuracy (at 30 MHz)	0 to -70 dBm +42.8 to -27.2 dBmV 0.1 dB ±1.0 dB (at 300 MHz, -20 dBm, and coupled source attenuator) (Option 011: use +28.8 dBmV instead of -20 dBm) 10 dB* ±0.75 dB over 10 dB range (referred to -20 dBm for coupled source attenuator setting)* (Option 011: referred to +28.8 dBmV instead of -20 dBm) 0 to 60 dB in 10 dB steps ±0.8 dB or 2.5% of attenuator setting, whichever is greatest, for maximum of 1.5 dB (referred to 10 dB source attenuator setting)*
Output Power Sweep Range, 50Ω, Option 010 Range, 75Ω, Option 011 Resolution Accuracy (zero span)	(-15 dBm to 0 dBm) – (Source Attenuator setting) (+27.8 to 42.8 dBmV) – (Source Attenuator setting) 0.1 dB <1.5 dB peak-to-peak
Output Flatness	±1.75 dB (referred to 300 MHz, 10 dB attenuator)
Spurious Outputs 50Ω, Option 010 75Ω, Option 011 Harmonic Spurs Non-Harmonic Spurs	(0 dBm output, 100 kHz to 1.8 GHz) (+42.8 dBmV output, 1 MHz to 1.8 GHz) <-25 dBc <-30 dBc
Dynamic Range Tracking Generator Feedthrough, 50Ω, Option 010 Tracking Generator Feedthrough, 75Ω, Option 011	<-106 dBm <-57.24 dBmV
* See Table 1-2, "Tracking Generator Output Accuracy."	

Characteristics for the HP 8591A

Table 1-2. HP 8591A Characteristics (1 of 8)

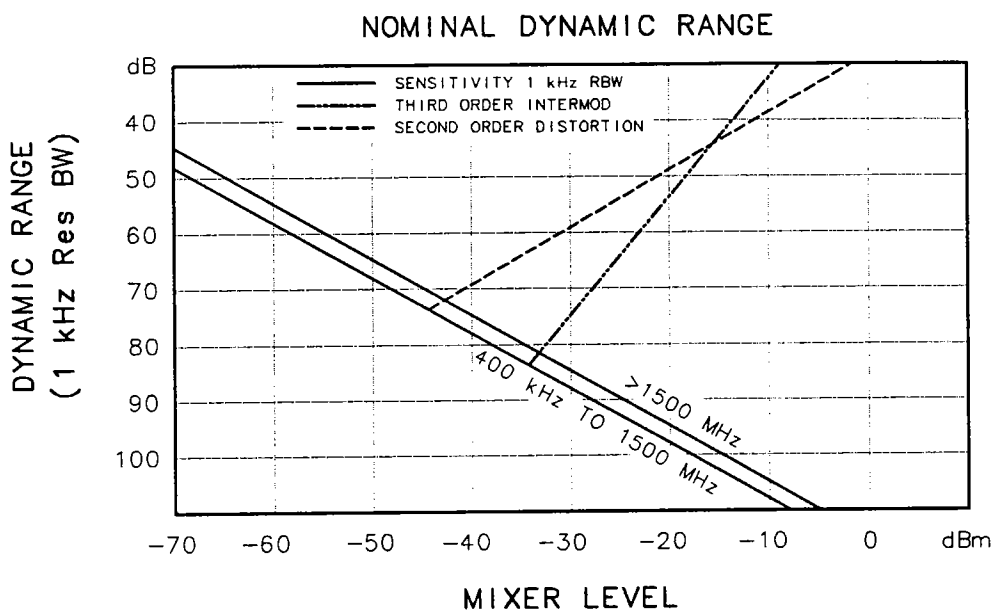
<p>Note: These are not specifications. Characteristics provide useful, but nonwarranted, information about instrument performance.</p>	
<p>FREQUENCY CHARACTERISTICS</p>	
<p>Frequency Reference Initial Achievable Accuracy</p>	<p>$\pm 0.5 \times 10^{-6}$</p>
<p>Precision Frequency Reference (Option 004) Aging</p>	<p>5×10^{-10}/day, 7 day average after being powered on for 7 days.</p>
<p>Warm-up</p>	<p>1×10^{-8} after 30 minutes on.</p>
<p>Initial Achievable Accuracy</p>	<p>$\pm 2.2 \times 10^{-8}$, after being powered on for 24 hours.</p>
<p>Resolution Bandwidth (-3 dB) Range</p>	<p>1 kHz to 3 MHz, selectable in 1, 3 and 10 increments, accuracy $\pm 20\%$ and 5 MHz. Resolution bandwidths may be selected manually, or coupled to frequency span.</p>
<p>Shape</p>	<p>Synchronously tuned 4 poles. Approximately Gaussian shape.</p>
<p>Video Bandwidth (-3 dB) Range</p>	<p>30 Hz to 1 MHz, selectable in 1, 3, 10 increments, accuracy $\pm 30\%$ and 3 MHz. Video bandwidths may be selected manually, or coupled to resolution bandwidth and frequency span.</p>
<p>Shape</p>	<p>Post detection, single pole low-pass filter used to average displayed noise.</p>

Table 1-2. HP 8591A Characteristics (2 of 8)

AMPLITUDE CHARACTERISTICS	
Absolute Amplitude Calibration Uncertainty*	±0.25 dB
Log Scale Switching Uncertainty	Negligible error.
FM Demod/TV Sync Trigger (Option 102) Demod Tune Listen	Internal speaker, rear panel earphone jack and front panel volume control. Adjustable squelch control mutes the audio signal to the speaker/earphone jack based on the level of the demodulated signal above 22 kHz. An uncalibrated demodulated signal is available on the AUX VIDEO OUT connector at the rear panel.
TV Trigger (Options 101 and 102)	Triggers sweep of the analyzer after the sync pulse of a selected line of a TV video field.
Carrier Level for Trigger	Top 60% of Linear Display.
Compatible Formats	NTSC, PAL, SECAM.
Field Selection	Even, Odd, Non-interlaced.
Trigger Polarity	Positive, Negative.
Line Selection	10 to 1021.
Input Attenuation Uncertainty† Attenuator Setting	
0 dB	±0.5 dB
10 dB	Ref
20 dB	±0.5 dB
30 dB	±0.6 dB
40 dB	±0.8 dB
50 dB	±1.0 dB
60 dB	±1.2 dB
Input Attenuator Repeatability	
300 MHz	±0.03 dB
1.8 GHz	±1.0 dB
RF Input SWR 9 kHz to 1.8 GHz	(Attenuator Setting 10 to 60 dB) 1.35:1
* Error in the CAL AMPTD routine. Absolute amplitude reference settings: 300 MHz Center Frequency; 10 dB Input Attenuator; -20 dBm Reference Level; 3 kHz Resolution Bandwidth; Linear Scale.	
† Referred to 10 dB input attenuator setting from 9 kHz to 1.8 GHz; See Table 1-1, Frequency Response Specification.	

Table 1-2. HP 8591A Characteristics (3 of 8)

DYNAMIC RANGE



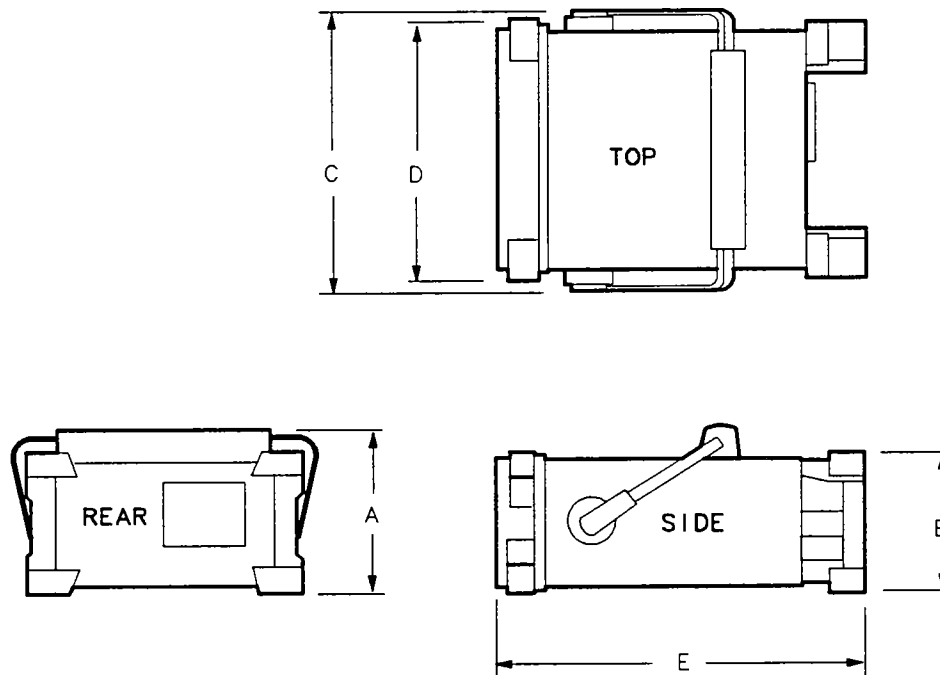
FRONT PANEL INPUT / OUTPUT	
INPUT 50Ω Connector Impedance	Type N female 50Ω nominal
INPUT 75Ω (Option 001) Connector Impedance	BNC female 75Ω nominal
PROBE POWER* Voltage/Current	+15 V dc, ±7% at 150 mA max. -12.6 V dc ±10% at 150 mA max.
* Total current drawn from the +15 V dc on the PROBE POWER and the AUX INTERFACE cannot exceed 150 mA. Total current drawn from the -12.6 V dc on the PROBE POWER and the -15 V dc on the AUX INTERFACE cannot exceed 150 mA.	

Table 1-2. HP 8591A Characteristics (4 of 8)

REAR-PANEL INPUTS / OUTPUTS	
10 MHz REF OUTPUT	
Connector	BNC female
Impedance	50Ω
Output Amplitude	>0 dBm
EXT REF IN	
Connector	BNC female
	Note: Analyzer noise sideband and spurious response performance may be affected by the quality of the external reference used.
Input Amplitude Range	-2 to +10 dBm
Frequency	10 MHz
AUX IF OUTPUT	
Frequency	21.4 MHz
Amplitude Range	-10 to -60 dBm
Impedance	50Ω nominal
AUX VIDEO OUTPUT	
Connector	BNC female
Amplitude Range	0 to 1 volt (uncorrected)
EARPHONE (Option 102)	
Connector	1/8 inch monaural jack.
EXT KEYBOARD (Option 021/023)	
	Interface compatible with HP part number C1405 Option ABA and most IBM/AT non-auto switching keyboards.
EXT TRIG INPUT	
Connector	BNC female.
Trigger Level	Positive edge initiates sweep in EXT TRIG mode (TTL).
HI-SWEEP IN/OUT	
Connector	BNC female.
Output	TTL high=sweep, low=retrace.
Input	Open collector, low stops sweep.
MONITOR OUTPUT	
Connector	BNC female.
Format	NTSC Video, 19.2 kHz horizontal rate.
REMOTE INTERFACE	
Option 021, HPIB	
HPIB Codes	SH1, AH1, T6, SR1, RL1, PP0, DC1, C1, C2, C3 and C28.
Option 023, RS-232	
SWEEP OUTPUT	
Connector	BNC female.
Amplitude	0 to +10 volt ramp.
TV TRIG OUT (Options 101 and 102)	
Connector	BNC female.
Amplitude	Negative edge corresponds to start of the selected TV line after sync pulse (TTL).

Table 1-2. HP 8591A Characteristics (5 of 8)

WEIGHT	
Net HP 8591A	14.5 kg (32 lb)
Shipping HP 8591A	17.3 kg (38 lb)
DIMENSIONS	
A = 8 in (200 mm)	
B = 7.25 in (184 mm)	
C = 14.69 in (373 mm)	
D = 13.25 in (337 mm)	
E = 18.12 in (460.5 mm)	



HP 8591A Dimensions

Table 1-2. HP 8591A Characteristics (6 of 8)

AUX INTERFACE				
Connector Type : 9 Pin Subminiature "D"				
Connector Pinout				
Pin #	Function	Current	"Logic" Mode	"Serial Bit" Mode
1	Control A	—	TTL Output Hi/Lo	TTL Output Hi/Lo
2	Control B	—	TTL Output Hi/Lo	TTL Output Hi/Lo
3	Control C	—	TTL Output Hi/Lo	Strobe
4	Control D	—	TTL Output Hi/Lo	Serial Data
5	Control I	—	TTL Input Hi/Lo	TTL Input Hi/Lo
6	Gnd	—	Gnd	Gnd
7†	-15 V dc ±7%	150 mA	—	—
8*	+5 V dc ±5%	150 mA	—	—
9†	+15 V dc ±5%	150 mA	—	—
TRACKING GENERATOR INPUTS AND OUTPUTS				
RF Output				
Impedance Connector				
Option 010		50Ω, Type N female		
Option 011		75Ω, BNC female		
Maximum Reverse Level				
Option 010		+20 dBm (0.1 W), 25 V		
Option 011		+69 dBmV (0.1 W), 100 V		
External ALC Input				
Impedance		1 Megohm		
Polarity		Positive or Negative		
Range		-66 dBV to +6 dBV		
Connector		BNC		
* Exceeding the +5 V current limits may result in loss of factory correction constants.				
† Total current drawn from the +15 V dc on the PROBE POWER and the AUX INTERFACE cannot exceed 150 mA. Total current drawn from the -12.6 V dc on the PROBE POWER and the -15 V dc on the AUX INTERFACE cannot exceed 150 mA.				

Table 1-2. HP 8591A Characteristics (7 of 8)

TRACKING GENERATOR CHARACTERISTICS	
Output Tracking Drift (usable in 10 kHz bandwidth after 30 minute warmup)	1 kHz/5 minutes
Spurious Outputs Option 010: 0 dBm output, >1.8 GHz to 4.0 GHz Option 011: +42.8 dBmV 75Ω, >1.8 GHz to 4.0 GHz Harmonic Non-Harmonic 2121.4 MHz Feedthrough	<-20 dBc <-40 dBc for 0 dBm TG Output Option 010: <-45 dBc; Option 011: +42.8 dBmV Output
RF Power-Off Residuals Option 010: 100 kHz to 1.8 GHz Option 011: 1 MHz to 1.8 GHz	<-115 dBm <-66.2 dBmV
Output Attenuator Repeatability	±0.2 dB
Output VSWR 0 dB Attenuator 10 dB Attenuator	<2.5:1 <1.6:1
Dynamic Range (difference between maximum power out and tracking generator feedthrough) Option 010, 100 kHz to 1.8 GHz Option 011, 1 MHz to 1.8 GHz	>106 dB >100 dB

Table 1-2. HP 8591A Characteristics (8 of 8)

TRACKING GENERATOR OUTPUT ACCURACY, Option 010 (after CAL TRK GEN in auto-coupled mode)					
TG Output Power Level	Attenuator Setting	Relative Accuracy (at 300 MHz referred to -20 dBm)	Absolute Accuracy (at 300 MHz)	Relative Accuracy (referred to -20 dBm) (+0.2 dB/GHz)*	Absolute Accuracy (+0.2 dB/GHz)*
0 to -10.9 dBm	0 dB	±1.25 dB	±2.25 dB	±2.75 dB	±3.75 dB
-11 to -20.9 dBm	10 dB	±0.75 dB	±1.75 dB	±2.25 dB	±3.25 dB
-20 dBm	10 dB	0 dB Reference	±1.0 dB	±1.50 dB	±2.50 dB
-21 to -30.9 dBm	20 dB	±1.25 dB	±2.25 dB	±2.75 dB	±3.75 dB
-31 to -40.9 dBm	30 dB	±1.35 dB	±2.35 dB	±2.85 dB	±3.85 dB
-41 to -50.9 dBm	40 dB	±1.55 dB	±2.55 dB	±3.05 dB	±4.05 dB
-51 to -60.9 dBm	50 dB	±1.75 dB	±2.75 dB	±3.25 dB	±4.25 dB
-61 to -70 dBm	60 dB	±1.95 dB	±2.95 dB	±3.45 dB	±4.45 dB
TRACKING GENERATOR OUTPUT ACCURACY, Option 011 (after CAL TRK GEN in auto-coupled mode)					
TG Output Power Level	Attenuator Setting	Relative Accuracy (at 300 MHz referred to +28.8 dBmV)	Absolute Accuracy (at 300 MHz)	Relative Accuracy (referred to +28.8 dBmV) (+0.2 dB/GHz)*	Absolute Accuracy (+0.2 dB/GHz)*
+42.76 to +31.77 dBmV	0 dB	±1.25 dB	±2.25 dB	±2.75 dB	±3.75 dB
+31.76 to +21.77 dBmV	10 dB	±0.75 dB	±1.75 dB	±2.25 dB	±3.25 dB
-28.76 dBmV	10 dB	0 dB Reference	±1.0 dB	±1.50 dB	±2.50 dB
+21.76 to +11.77 dBmV	20 dB	±1.25 dB	±2.25 dB	±2.75 dB	±3.75 dB
+11.76 to +1.77 dBmV	30 dB	±1.35 dB	±2.35 dB	±2.85 dB	±3.85 dB
+1.76 to -8.23 dBmV	40 dB	±1.55 dB	±2.55 dB	±3.05 dB	±4.05 dB
-8.24 to -18.23 dBmV	50 dB	±1.75 dB	±2.75 dB	±3.25 dB	±4.25 dB
-18.24 to -27.23 dBmV	60 dB	±1.95 dB	±2.95 dB	±3.45 dB	±4.45 dB
* Add 0.2 dB/GHz of tuned frequency to the value in this column for complete accuracy specification relative to frequency.					



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