Table 1-2. Specifications (1 of 2)

Specifications describe the instrument's warranted performance over the temperature range of 23±5°C (except where noted). Supplemental characteristics are intended to provide information useful in applying the instrument by giving non-warranted performance parameters. These are denoted as "typical", "nominal", or "approximate".

	HP 41952A	HP 41952B
Impedance:	50 Ω	75 Ω
Frequency Range:	100 kHz to 500 MHz	100 kHz to 500 MHz
Directivity:		
<300 kHz	30 dB	30 dB
300 kHz to 200 MHz	40 dB	35 dB
>200 MHz	35 dB	35 dB
Typical Frequency Response: [1]		
Transmission (Magnitude [2], Phase [3]):	±1 dB, ±5 deg	±1 dB, ±5 deg
Reflection (Magnitude [2], Phase [3]):		
<300 kHz	±1 dB, ±15 deg	±1 dB, ±20 deg
300 kHz to 1 MHz	±1 dB, ±5 deg	±1 dB, ±10 deg
>1 MHz	±1 dB, ±5 deg	±1 dB, ±5 deg
Effective Source Match (TEST PORT):		
<300 kHz	≥15 dB	≥15 dB
≥300 kHz	≥20 dB	≥20 dB
Port Match (INCIDENT, REFLECTED and RF INPUT):	≥20 dB	≥20 dB
Insertion Loss (Nominal):		
RF INPUT to TEST PORT:	13 dB	19 dB
RF INPUT to INCIDENT:	19 dB	31 dB
RF INPUT to REFLECTED:	19 dB	31 dB
Maximum Input Level:		
RF INPUT:	+20 dBm	+20 dBm
TEST PORT:	+20 dBm	+20 dBm

[1] can be removed with the HP 4195A's NORMALIZATION function
[2] deviation from mean value
[3] deviation from linear phase

Table 1-2. Specifications (2 of 2)

	HP 41952A	HP 41952B
Damage Level:		
RF INPUT:	+23 dBm	+23 dBm
TEST PORT:	+23 dBm	+23 dBm
Connector:		
TEST PORT:	50 Ω Type N(f)	75 Ω Type N(f)
RF INPUT:	50 Ω Type N(f)	50 Ω Type N(f)
INCIDENT and REFLECTED:	50 Ω Type N(m)	50 Ω Type N(m)
Operating Conditions:		
Temperature:	0 °C to 55 °C	0 °C to 55 °C
Relative Humidity:	<95 % at 40 °C	<95 % at 40 °C
Option:	———	Option 009[4] : Delete 50 Ω N cable and HP 11852B

[4] For 75Ω S-parameter measurements with the HP 4195A and two set of the HP 41952B.