



# Advanced Test Equipment Rentals

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Table 1-2. Specifications (1 of 2)

Specifications describe the instrument's warranted performance over the temperature range of  $23\pm5^{\circ}\text{C}$  (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
<b>Impedance:</b>	50 $\Omega$	75 $\Omega$
<b>Frequency Range:</b>	100 kHz to 500 MHz	100 kHz to 500 MHz
<b>Directivity:</b>		
<300 kHz	30 dB	30 dB
300 kHz to 200 MHz	40 dB	35 dB
>200 MHz	35 dB	35 dB
<b>Typical Frequency Response:<sup>1</sup></b>		
Transmission (Magnitude <sup>2</sup> , Phase <sup>3</sup> ):	$\pm 1 \text{ dB}, \pm 5 \text{ deg}$	$\pm 1 \text{ dB}, \pm 5 \text{ deg}$
Reflection (Magnitude <sup>2</sup> , Phase <sup>3</sup> ):	$\pm 1 \text{ dB}, \pm 15 \text{ deg}$	$\pm 1 \text{ dB}, \pm 20 \text{ deg}$
<300 kHz	$\pm 1 \text{ dB}, \pm 5 \text{ deg}$	$\pm 1 \text{ dB}, \pm 10 \text{ deg}$
300 kHz to 1 MHz	$\pm 1 \text{ dB}, \pm 5 \text{ deg}$	$\pm 1 \text{ dB}, \pm 5 \text{ deg}$
>1 MHz		
<sup>1</sup> can be removed with the HP 4195A's NORMALIZATION function		
<sup>2</sup> deviation from mean value		
<sup>3</sup> deviation from linear phase		
<b>Effective Source Match (TEST PORT):</b>		
<300 kHz	$\geq 15 \text{ dB}$	$\geq 15 \text{ dB}$
$\geq 300 \text{ kHz}$	$\geq 20 \text{ dB}$	$\geq 20 \text{ dB}$
<b>Port Match (INCIDENT, REFLECTED and RF INPUT):</b>		
	$\geq 20 \text{ dB}$	$\geq 20 \text{ dB}$
<b>Insertion Loss (Nominal):</b>		
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
<b>Maximum Input Level:</b>		
RF INPUT:	+20 dBm	+20 dBm
TEST PORT:	+20 dBm	+20 dBm

Table 1-2. Specifications (2 of 2)

	HP 41952A	HP 41952B
<b>Damage Level:</b>		
RF INPUT:	+23 dBm	+23 dBm
TEST PORT:	+23 dBm	+23 dBm
<b>Connector:</b>		
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)
<b>Operating Conditions:</b>		
Temperature:	0 °C to 55 °C	0 °C to 55 °C
Relative Humidity:	<95 % at 40 °C	<95 % at 40 °C
<b>Option:</b>	_____	Option 009 <sup>1</sup> ; Delete 50 Ω N cable and HP 11852B

<sup>1</sup> For 75Ω S-parameter measurements with the HP 4195A and two set of the HP 41952B.