RECOMMENDED TEST EQUIPMENT

Table 1-2 lists equipment and accessories required for operating, testing and repairing the HP 85044A/B. The table notes which items are required to verify the performance of the test set and which are required to operate it. Other equipment may be substituted if its specifications meet or exceed the specifications listed in the critical specifications column.

SPECIFICATIONS

Definitions

The specifications listed in Table 1-1 range from those guaranteed by Hewlett-Packard to those typical of most HP85044A/B instruments but not guaranteed. Codes in the far right column reference a specification definition listed below. These definitions are intended to clarify the extent to which Hewlett-Packard supports the specified performance of the HP85044A/B.

- **S-1:** This performance parameter is field verifiable using performance tests documented in the service manual.
- **T:** Typical but non-warranted performance characteristics intended to provide information useful in applying the instrument. Typical characteristics are representative of most instruments, though not necessarily tested in each unit. Not field tested.

Table 1-1. HP 85044A/B Specifications

Parameter	HP 85044A	HP85044B	Code
Frequency Range	300 kHz to 3 GHz	300 kHz to 2 GHz	S-1
Directivity1:	GMOLIC GMOLIC	A D 拉特性 军事關係機能 机形态 拉拉	
TEST Port	≥35 dB to 1.3 GHz	≥35 dB to 1.3 GHz	S-1
	≥30 dB to 3 GHz	≥30 dB to 2 GHz	S-1
Port Match1: INCIDENT and	UPPLIED E HOITUAS		
REFLECTED	≥18 dB to 1.3 GHz	≥18 dB to 1.3 GHz	S-1
	≥13 dB to 3 GHz	≥13 dB to 2 GHz	
RF INPUT	≥17 dB to 1.3 GHz	≥17 dB to 1.3 GHz	
	≥12 dB to 3 GHz	≥12 dB to 2 GHz	
Effective Source Match ¹	legohma. Allemadiv ely, ground sy grounded instrument chasa	Megohin and no more than 2.5 N by touching the outer shell of all	S-1
TEST Port	≥14 dB 300 kHz to 2 MHz	≥14 dB 300 kHz to 2 MHz	
	≥20 dB 2 MHz to 1.3 GHz	≥17 dB 2 MHz to 1.3 GHz	
	≥16 dB 1.3 GHz to 3 GHz	≥16 dB 1.3 GHz to 2 GHz	
Typical Transmission Tracking ¹	pashus otate-tina na rt	liv beggiupe natista stow s neU	
Magnitude	± 1.5 dB ² 300 kHz to 3.0 GHz	± 1.5 dB ² 300 kHz to 2.0 GHz	Т
Phase ³	±10 deg 300 kHz to 3.0 GHz	±10 deg 300 kHz to 2.0 GHz	0 0687 8
Typical Reflection Tracking1	20V 96 1	oeraung level input of + xo eem o	T
Magnitude	± 1.5 dB ² 300 kHz to 3.0 GHz	± 1.5 dB ² 300 kHz to 2.0 GHz	0.01713
Phase ³	±25 deg 300 kHz to 2.0 MHz	\pm 25 deg 300 kHz to 2.0 MHz	
	± 10 deg 2.0 MHz to 3.0 GHz	± 10 deg 2.0 MHz to 2.0 GHz	eparior e

Table 1-1. HP 85044A/B Specifications

Parameter	HP 85044A	HP85044B	Code
Nominal Insertion Loss:			
RF INPUT to TEST Port RF INPUT to	12.5 dB +.5 dB/GHz	18 dB +.5 dB/GHz	
INCIDENT RF INPUT to	18 dB +1.5 dB/GHz	18 dB +1 dB/GHz	ZISA netwo
REFLECTION	19 dB +1.5 dB/GHz	30 dB +1.5 dB/GHz	odřítonino es
Impedance: TEST Port RF INPUT, INCIDENT,	50Ω	75Ω	nominal
REFLECTED	50Ω	50Ω	nominal
Connectors: TEST Port RF INPUT, INCIDENT,	7 mm	75Ω type-N (f)	Mged, keep
REFLECTED	50Ω type-N (f)	50Ω type-N (f)	
DC bias inputs:	BNC (f)	BNC (f)	Tor hexage
DC bias input range:	+30 Vdc, +200 mA (fused at 750 mA)(some degradation of RF specifications, 300kHz to 100 MHz)		
Damage level:	1 watt (+30 dBm) CW RF input		salida 4 11 d
Dimensions:	19 cm x 15 cm x 5 cm (7.5 x 6.0 x 2.0 inches)		
Weight:	1.7 kg (3.7 lb) net; 3.1 kg (7 lb) shipping		

 $^{^{\}rm 1}$ can be greatly improved with HP 8753A accuracy enhancement techniques $^{\rm 2}$ deviation from mean value $^{\rm 3}$ deviation from linear phase

Table 1-2. Recommended Test Equipment

Instrument	Critical Specifications	Recommended Model	Use*
Network analyzer	no substitute	HP 8753A	O, P, T
Multimeter	range: DC to 50V	HP 3456A	Т
Cable set	50Ω type-N, three 24 inch phase-matched, one 34 inch	HP11851B	P