

The *Circuit Sleuth* SA & RA Series FRA's

Specifications:

System

Dimensions SA-Series	-----	5.5"H x 1.5"W x 9.5"L x 2 lbs.
Dimensions RA-Series	-----	1.75"H x 13.5"W x 11.625"L x 6 lbs.
Computer Interface (included)	-----	Standard USB

Power Source

External (Included)	-----	+ 12VDC
Power Consumption	-----	9.7 Watts

Source Characteristics

Frequency Characteristics

Range	Model: SA / RA-01	-----	10 Hz to 1 MHz
	SA / RA-10	-----	1 Hz to 10 MHz
	SA / RA-40	-----	0.1 Hz to 40 MHz
	SA / RA-100M **NEW**	-----	0.1 Hz to 100 MHz

Resolution		0.0293Hz
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Output Characteristics

Power Range (into 50 load)	-----	-36dBm(10mv _{pp}) to +4 dBm(1V _{pp})
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Output Adjustment Range (RA Series)	-----	-36dBm to VFP Indicated full scale
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Flatness	0.1 Hz to 10 MHz	-----	+/- 0.5 db
	10 MHz to 40 MHz	-----	+/- 1.5 db
Resolution		-----	0.2 db
Output Impedance		-----	50 Ohms
Current Limit (output shorted)		-----	40 mA
Connector			BNC

Magnitude Characteristics

Ratio Accuracy (typically for B/A) ¹		< +/- 0.05 db
Input signal level = -10 dBm at channels A and B, IF Bandwidth = 5Hz		

Phase Characteristics

Ratio Accuracy (typically for B/A) ¹		< +/- 0.6°
Input signal level = -10 dBm at channels A and B, IF Bandwidth = 5Hz		

Receiver

Input Coupling	-----	AC
Dynamic Range	-----	96 db
Input Signal Level Maximum ²	-----	+4 dBm (1V _{pp})
Input Impedance	-----	1 Megohm 22 pf

¹ Ratio measurements cancel deviations in source

² x10 probe increases maximum input signal to 10 V_{pp}