

Sensor Selection Guide							
Model	Frequency Range	Power Range		Maximum Power	Maximum VSMR	RF Connector	
		Peak	CW				
High Speed Sensors (< 15 ns Rise Time, Typically 10 ns)							
16936A	750 MHz to 18.5 GHz	-20 to +20 dBm	-40 to +20 dBm	+23 dBm 200 mW	Below 2.0 GHz 2.0 to 12.4 GHz 12.4 to 18.0 GHz	1.12 1.22 1.37	Type N(m) 50 Ω
16937A	750 MHz to 18.5 GHz	-20 to +20 dBm	-40 to +20 dBm	+23 dBm 200 mW	Below 2.0 GHz 2.0 to 12.4 GHz 12.4 to 18.0 GHz	1.12 1.22 1.37	APC-7 50 Ω
17266A	750 MHz to 26.5 GHz	-20 to +20 dBm	-40 to +20 dBm	+23 dBm 200 mW	Below 2.0 GHz 2.0 to 12.4 GHz 12.4 to 18.0 GHz 18.0 to 26.5 GHz	1.12 1.22 1.37 1.50	Type K(m) 50 Ω
17071A	750 MHz to 40.0 GHz	-20 to +20 dBm	-40 to +20 dBm	+23 dBm 200 mW	Below 2.0 GHz 2.0 to 12.4 GHz 12.4 to 18.0 GHz 18.0 to 26.5 GHz 26.5 to 40.0 GHz	1.12 1.22 1.37 1.50 1.92	Type K(m) 50 Ω
Low Frequency Sensors (< 750 ns Rise Time, Typically 500 ns)							
16934A	30 MHz to 18.5 GHz	-20 to +20 dBm	-40 to +20 dBm	+23 dBm 200 mW	Below 2.0 GHz 2.0 to 12.4 GHz 12.4 to 18.0 GHz	1.12 1.22 1.37	Type N(m) 50 Ω
16935A	30 MHz to 18.5 GHz	-20 to +20 dBm	-40 to +20 dBm	+23 dBm 200 mW	Below 2.0 GHz 2.0 to 12.4 GHz 12.4 to 18.0 GHz	1.12 1.22 1.37	APC-7 50 Ω
17267A	30 MHz to 26.5 GHz	-20 to +20 dBm	-40 to +20 dBm	+23 dBm 200 mW	Below 2.0 GHz 2.0 to 12.4 GHz 12.4 to 18.0 GHz 18.0 to 26.5 GHz	1.12 1.22 1.37 1.50	Type K(m) 50 Ω

Power Sensor Calibration Factor Uncertainties				
Power Sensors	16934A	16934A	16934A	16934A
	16935A	17266A	16935A	17266A
	16936A	17267A	16936A	17267A
	16937A	17071A	16937A	17071A
Frequency	Sum of Uncertainties (%) ²		Probable Uncertainties (%) ³	
30.0 MHz to 1.0 GHz	1.39	3.06	1.25	1.64
1.0 to 2.0 GHz	2.34	3.51	1.44	1.73
2.0 to 4.0 GHz	2.93	4.42	1.60	1.93
4.0 to 8.0 GHz	3.42	4.94	1.82	2.08
8.0 to 12.4 GHz	4.31	6.04	2.30	2.55
12.4 to 18.0 GHz	4.91	6.86	2.53	2.83
18.0 to 26.5 GHz	—	9.27	—	3.63
26.5 to 40.0 GHz	—	15.19	—	6.06

²Includes uncertainty of reference standard and transfer uncertainty.

Directly traceable to NIST.

³Square root of the sum of the individual uncertainties squared (RSS).

ORDERING INFORMATION

Power Sensors

- 16934A 30 MHz to 18.5 GHz, Type N
- 16935A 30 MHz to 18.5 GHz, APC-7
- 16936A 750 MHz to 18.5 GHz, High Speed, Type N
- 16937A 750 MHz to 18.5 GHz, High Speed, APC-7
- 17266A 750 MHz to 26.5 GHz, High Speed Sensor, Type K
- 17267A 30 MHz to 26.5 GHz, Type K
- 17071A 750 MHz to 40.0 GHz, High Speed Sensor, Type K
- 17071/S5428 500 MHz to 40.0 GHz, High Speed, Type K

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