Power Sensor Selection Guide

	Frequency Range/ Power Range	Maximum Power	Power Linearity [3] (Frequency > 8 GHz)	RF Connector	Length	Diameter	Weight	VSWR
CW Power Sensors								
80301A	10 MHz to 18 GHz -70 to +20 dBm	+23 dBm (200 mW)	-70 to -20 dBm: ±0.00 dB -20 to +20 dBm: ±0.05 dB/10 dB	Type N(m) 50Ω	114.5 mm (4.5 in)	32 mm (1.25 in)	0.18 kg (0.4 lb)	1.12: 0.01 - 2 GHz 1.22: 2 - 12.4 GHz
80302A	10 MHz to 18 GHz -70 to +20 dBm	+23 dBm (200 mW)	-70 to -20 dBm: ±0.00 dB -20 to +20 dBm: ±0.05 dB/10 dB	APC-7(m) 50Ω	114.5 mm (4.5 in)	32 mm (1.25 in)	0.18 kg (0.4 lb)	1.29: 12.4 - 18 GHz 1.12: 0.01 - 2 GHz
80303A	10 MHz to 26.5 GHz -70 to +20 dBm	+23 dBm (200 mW)	-70 to -20 dBm: ±0.00 dB -20 to +20 dBm: ±0.1 dB/10 dB	Type K(m) [2] 50Ω	114.5 mm (4.5 in)	32 mm (1.25 in)	0.18 kg (0.4 lb)	1.22: 2 - 12.4 GHz 1.38: 12.4 - 18 GHz
80304A	10 MHz to 40 GHz -70 to 0 dBm	+23 dBm (200 mW)	-70 to -20 dBm: ±0.00 dB -20 to 0 dBm: ±0.2 dB/10 dB	Type K(m) [2] 50Ω	114.5 mm (4.5 in)	32 mm (1.25 in)	0.18 kg (0.4 lb)	1.43: 18 - 26.5 GHz 1.92: 26.5 - 40 GHz
Low VSWR CW Power Sensors								
80310A	10 MHz to 18 GHz -64 to +26 dBm	+29 dBm (800 mW)	-64 to -14 dBm: ±0.00 dB -14 to +26 dBm: ±0.05 dB/10 dB	Type K(m) [2] 50Ω	127 mm (5.0 in)	32 mm (1.25 in)	0.23 kg (0.5 lb)	1.13: 0.01 - 2 GHz 1.16: 2 - 12 GHz
80313A	10 MHz to 26.5 GHz -64 to +26 dBm	+29 dBm (800 mW)	-64 to -14 dBm: ±0.00 dB -14 to +26 dBm: ±0.1 dB/10 dB					1.23: 12 - 18 GHz 1.29: 18 - 26.5 GHz
80314A	10 MHz to 40 GHz -64 to +6 dBm	+29 dBm (800 mW)	-64 to -14 dBm: ±0.00 dB -14 to +6dBm: ±0.2 dB/10 dB					1.50: 26.5 - 40 GHz
1W CW Power Sensors								
80320A	10 MHz to 18 GHz -60 to +30 dBm	+30 dBm (1 W)	-60 to -10 dBm:±0.00 dB -10 to +30 dBm: ±0.05 dB/10 dB	Type K(m) [2] 50Ω	127 mm (5.0 in)	32 mm (1.25 in)	0.23 kg (0.5 lb)	1.11: 0.01 - 2 GHz 1.12: 2 - 12 GHz
80323A	10 MHz to 26.5 GHz -60 to +30 dBm	+30 dBm (1 W)	-60 to -10 dBm: ±0.00 dB -10 to +30 dBm: ±0.1 dB/10 dB					1.18: 12 - 18 GHz 1.22: 18 - 26.5 GHz
80324A	10 MHz to 40 GHz -60 to +10 dBm	+30 dBm (1 W)	-60 to -10 dBm: ±0.00 dB -10 to +10 dBm: ±0.2 dB/10 dB					1.36: 26.5 - 40 GHz
True RMS Sensors (-30 dBm to +20 dBm)								
80330A 80333A 80334A	10 MHz to 18 GHz 10 MHz to 26.5 GHz 10 MHz to 40 GHz	+33 dBm (2 W)	-30 to +20 dBm: ±0.00 dB	Type K(m) [2] 50Ω	152 mm (6.0 in)	32 mm (1.25 in)	0.27 kg (0.6 lb)	1.12: 0.01 - 12 GHz 1.15: 12 - 18 GHz 1.18: 18 - 26.5 GHz 1.29: 26.5 - 40 GHz
Triggerable Pulse Power Sensors								
80340A	50 MHz to 18 GHz -20 to +20 dBm (Triggered) -30 to +20 dBm (Free Run)	+23 dBm (200 mW)	±0.13 db, 0 dBm to -30 dBm ±0.13 dB, ±0.01 dB dB/dB from 0 dBm to +20 dBm	Type N(m)	14.6 cm (5.75 in)	3.7 cm (1.44 in)	0.3 kg (0.7 lbs)	1.12: 0.5 - 2 GHz 1.22: 2 - 12.4 GHz 1.37: 12.4 - 18 GHz 1.50: 18 - 26.5 GHz 1.92: 26.5 - 40 GHz
80343A	50 MHz to 26.5 GHz -20 to +20 dBm (Triggered) -30 to +20 dBm (Free Run)	+23 dBm (200 mW)	±0.13 db, 0 dBm to -30 dBm ±0.13 dB, ±0.01 dB dB/dB from 0 dBm to +20 dBm	Type K(m)	14.6 cm (5.75 in)	3.7 cm (1.44 in)	0.3 kg (0.7 lbs)	
80344A	50 MHz to 40 GHz -20 to 0 dBm (Triggered) -30 to 0 dBm (Free Run)	+23 dBm (200 mW)	±0.13 db, 0 dBm to -30 dBm	Type K(m)	14.6 cm (5.75 in)	3.7 cm (1.44 in)	0.3 kg (0.7 lbs)	

[2]The K connector is electrically and mechanically compatible with the APC-3.5 and SMA connectors. [3]For frequencies above 8 GHz, add power linearity to system linearity.

Bridge Selection Guide

	Frequency Range/ Power Range	Maximum Power	Power Linearity [4] (Frequency > 8 GHz)	Input	Test Port	Directivity	Weight	Dimensions	VSWR
Precision CW Return Loss Bridges									
80501	10 MHz to 18 GHz -35 to +20 dBm	+27 dBm (0.5 W)	-35 to +10 dBm: ±0.1 dB +10 to +20 dBm: ±0.1 dB ±0.005 dB/dB	Type N(f) 50Ω	Type N(f) 50Ω	38 dB	0.340 kg (12 oz.)	7.6 X 5 X 2.8 cm (3 X 2 X 1.125 in)	< 1.17: 0.01 - 8 GHz < 1.27: 8 - 18 GHz
80502	10 MHz to 18 GHz -35 to +20 dBm	+27 dBm (0.5 W)	-35 to +10 dBm: ±0.1 dB +10 to +20 dBm: ±0.1 dB ±0.005 dB/dB	Type N(f) 50Ω	APC-7(f) 50Ω	40 dB	0.340 kg (12 oz.)	7.6 X 5 X 2.8 cm (3 X 2 X 1.125 in)	< 1.13: 0.01 - 8 GHz < 1.22: 8 - 18 GHz
80503	10 MHz to 26.5 GHz -35 to +20 dBm	+27 dBm (0.5 W)	-35 to +10 dBm: ±0.1 dB +10 to +20 dBm: ±0.1 dB ±0.005 dB/dB	SMA(f) 50Ω	SMA(f) 50Ω	35 dB	0.340 kg (7 oz.)	1.9 X 3.8 X 2.9 cm (.75 X 1.5 X 1.125 in)	< 1.22: 0.01 - 18 GHz < 1.27: 18 - 26.5 GHz
80504	10 MHz to 40 GHz -35 to +20 dBm	+27 dBm (0.5 W)	-35 to +10 dBm: ±0.1 dB +10 to +20 dBm: ±0.1 dB ±0.005 dB/dB	Type K(f) 50Ω	Type K(f) 50Ω	30 dB	0.198 kg (7 oz.)	1.9 X 3.8 X 2.9 cm (.75 X 1.5 X 1.125 in)	< 1.35: 0.01 - 26.5 GHz < 1.44: 26.5 - 40 GHz

[4]For frequencies above 8 GHz, add power linearity to system linearity.