## **RF Peak Power Sensors**

## Real-Time with USB RFP3000 Series

Company	B&K Precision							Keysight					Rohde & Schwarz			
Model	RFP3006	RFP3008	RFP3018	RFP3040	RFP3118	RFP3140	U2063XA	U2044XA	U2042XA	U2021XA	U2022XA	NRP-Z81	NRP-Z85	NRP-Z86.40	NRP-Z86.44	
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List price	\$6,995	\$7,995	\$6,795	\$7,595	\$6,795	\$7,595	\$8,442	\$7,325	\$6,324	\$8,492	\$8,999	\$7,985	\$8,390	\$8,140	\$8,700	
Туре	Peak						Peak					Wideband				
<b>RF Characteristics</b>																
Frequency, High	6 GHz	8 GHz	18 GHz	40 GHz	18 GHz	40 GHz	33 GHz	18 GHz	6 GHz	18 GHz	40 GHz	18 GHz	40 GHz			
Frequency, Low		50 MHz						40 MHz I0 MHz		50 MHz		50 MHz				
Power, Low*	-60/-50	-60/-50 <sup>1</sup> -53/-43 <sup>2</sup>				-50/-40		-70/-40		-45/-35		-60/-17				
Power, High	+20 dBm						+26 dBm			+20 dBm		+20 dBm				
Trigger Range	-38 to +20 dBm -10 to +20 dBm			-27 to +20 dBm		-25 to +26 dBm		-20 to 20 dBm		-30 to +20 dBm						
VBW	0.35/195 MHz	0.35/165 MHz	0.35/70 MHz		0.35/6 MHz		0.3/5 MHz		5/30 MHz		0.3/30 MHz					
VBW, single shot	35 MHz				6 MHz		5 MHz			30 MHz		30 MHz				
Rise Time	3 ns 4 ns 5 ns				100 ns		100 ns			I3 ns		I3 ns				
Readings	100 k per second						25 k/s³ (50 k avg)			25 k/s <sup>4</sup>		9800 per second				
Sample Rate	IO0 MSPS						20 MSPS			80 MSPS		80 MSPS				
Effective Sampling Rate	IO GSPS						20 MSPS			80 MSPS		80 MSPS				
Time Resolution	100 ps						50 ns			12.5 ns		12.5 ns				
Minimum Pulse Width	10 ns 200 ns					250 ns			50 ns		50 ns					
Maximum PRF	50 MHz						2 MHz <sup>s</sup> IO MHz <sup>s</sup>			I0 MHz						
Maximum Capture Time	Virtually unlimited with MBuff Mode						6.5 ms full rate I.2 ms full rate				Up to I s					
Warranty	3 Years						3 Years				3 Years					

\* x/y = x is in CW or the lowest VBW setting, y is at max VBW

I From 50 MHz to 6 GHz

2 > 6 GHz to 8 GHz

3 Only for first 200 measurements

4 Only for first 100 measurements

5 Only 10 samples per period

B&K Precision employs unique Real-time power processing

Rohde & Schwarz and Keysight use SCPI, B&K Precision require drivers on host Rohde & Schwarz and Keysight have S-parameter and gamma correction

Keysight includes internal zeroing on their sensors U202xXA only offer external triggering in avg mode

To externally trigger, Rohde & Schwarz requires NRP2 base unit, Rohde & Schwarz<sup>®</sup> NRP-Z3 USB, adapter cable or Rohde & Schwarz<sup>®</sup> NRP-Z5 USB sensor hub