



BNC 7000 series vs. Holzworth HA7062C

Equipment	7070/7300/7340	HA7062C	HA7062C with Downconverter
Frequency Range	5 MHz to 7 / 26 / 40 GHz	10 MHz to 6 GHz	4 GHz to 24 GHz
Offset Range	0.01 Hz to 100 MHz	0.1 Hz – 40 MHz	0.1 Hz – 40 MHz
Phase Noise Sensitivity at 1 correlation, 100 MHz (dBc/Hz)	Standard/ Option LN/Ext. Refs		Phase Noise (Additive)
1 Hz offset	-65/-95/-120	-70 / - / -	at 10kHz offset 1x HX4920 unit -135 dBc/Hz 2x HX4920 units -160 -135 dBc/Hz
10 Hz offset	-105/-120/-130	-102 / - / -	
100 Hz offset	-135/-135/-140	-136 / - / -	
1 kHz offset	-160/-160/-170	-160 / - / -	
10 kHz offset	-175/-175/-178	-172 / - / -	
100 kHz offset	-185/-185/-178	-181 / - / -	
1 MHz offset	-188/-188/-178	-183 / - / -	
Measurement Speed (1kHz, 1 corr)	0.01 s (250 samples)	4 s (256 samples)	-
Input Power Range	-25 to +23 dBm	0 to +20 dBm	+4 to +10 dBm
Measurement Accuracy			
< 10 Hz offset	± 4 dB	± 4 dB	-
< 1 kHz offset	± 3 dB	± 4 dB	-
> 1kHz offset	± 2 dB	± 2 dB	-
Internal / External References	Y / Y	Y/Y	Y/Y
MEASUREMENT MODES			
Absolute Phase Noise Measurement	Y	Y	Y
Residual Phase Noise Measurement	Y	Y	Y
Pulsed Absolute & Residual Phase Noise Measurement	Y	N	N
Amplitude Noise Measurement	Y	Y	Y
VCO Test Bench	Y	Y	Y
Transient Measurement	Y	N	N
Burst Mode Phase Noise Measurement	Y	N	N
Time Stability Measurement	Y	N	N
Spectrum Monitoring	Y	N	N
INTERFACES			
GPIB	Y	Y	Y
USBTMC	Y	Y	Y
LAN	Y	Y	Y
Power Consumption	25 W	150 W	-
Weight	17.5 lb	-	-
Datasheet	7000 Series	HA7062C	HX4920
Starting Price	\$51,330	\$39,500	\$44,000