AXTAL ADVANCED XTAL PRODUCTS

FREQUENCY DISTRIBUTION UNITS

Model	AXDA9000 Low Noise Selective Distribution Amplifier	AXIOM9000 Very High Stability Ultra-Low Noise Reference (D)OCXO	AXDO9000 AXIOM9000 Reference with integrated distribution amplifier	AXGPS9000 GPS-disciplined OCXO Frequency Reference	AXRB9000 High Stability Low Noise Rubidium Frequency Reference
Frequency	5 ~ 100 MHz (Fixed)	10 MHz Frequency Reference			
Features	▪ Ultra-Low Phase Noise ▪ Up to 16 outputs ▪ Very high isolation: reverse/inter-channel ▪ Standard frequencies: 5, 10 and 100 MHz ▪ Best suited to distribute AXTAL9000 series references	▪ Very High Stability ▪ Ultra-Low Phase Noise ▪ Very Low Aging ▪ Up to 3 isolated outputs for frequency distribution ▪ Cascadable with AXDA9000 distribution unit (up to 48 outputs)	▪ Very High Stability ▪ Ultra-Low Phase Noise ▪ Very Low Aging ▪ 4 to 16 isolated outputs for frequency distribution	▪ GPS-disciplined High Stability 10^{-11} ▪ Ultra-Low Phase Noise ▪ 1 PPS Input/Output ▪ RS-232 Interface with NMEA-0183 standard ▪ Cascadable with AXDA9000 distribution unit (up to 48 outputs)	▪ Very High Long-term Frequency Stability $2 \cdot 10^{-10}$ per year ▪ Short-term Stability $1 \cdot 10^{-12}$ @ τ = 100 sec ▪ Ultra-Low Phase Noise ▪ Up to 3 isolated outputs for frequency distribution ▪ Cascadable with AXDA9000 distribution unit (up to 48 outputs)
Operation	AC Supply 100 ~ 240 V (47 ~ 63 Hz) / Operating temperature range -10°C ~ +60°C				
Size	Slim 19” Rack - 1 HU				Slim 19” Rack - 2 HU

See also our Atomic Clock Frequency Reference Units

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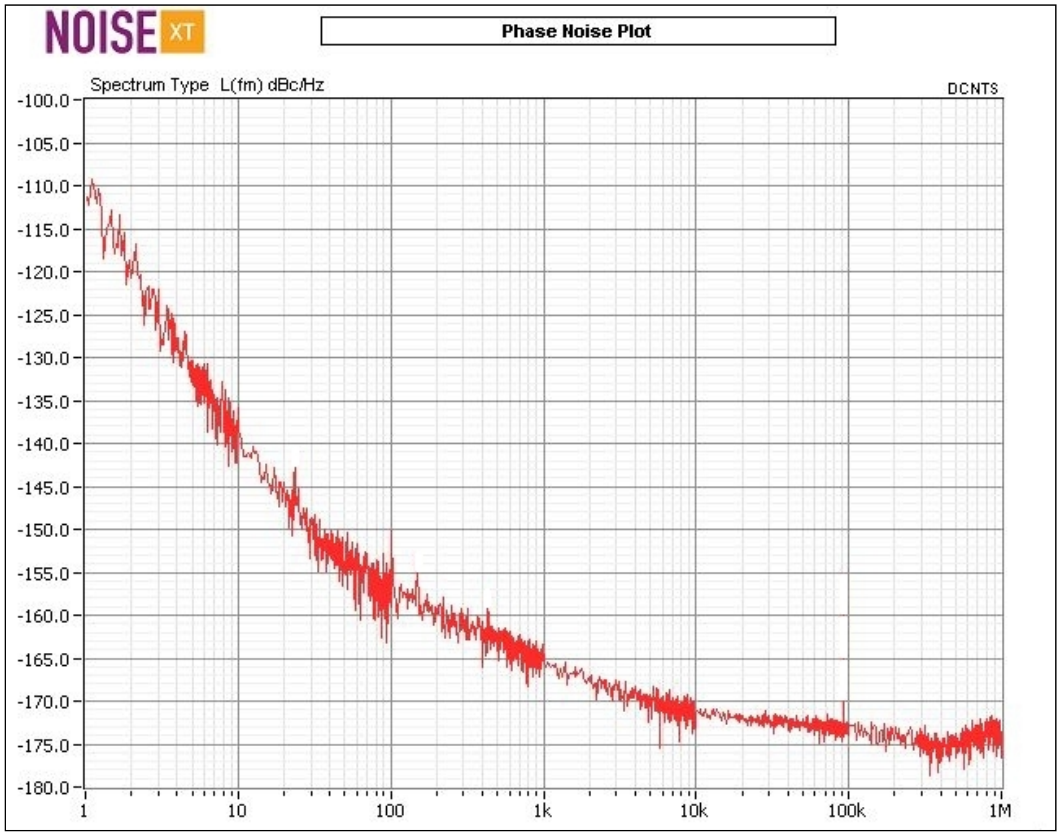
Phase Noise Performance & Block Diagram

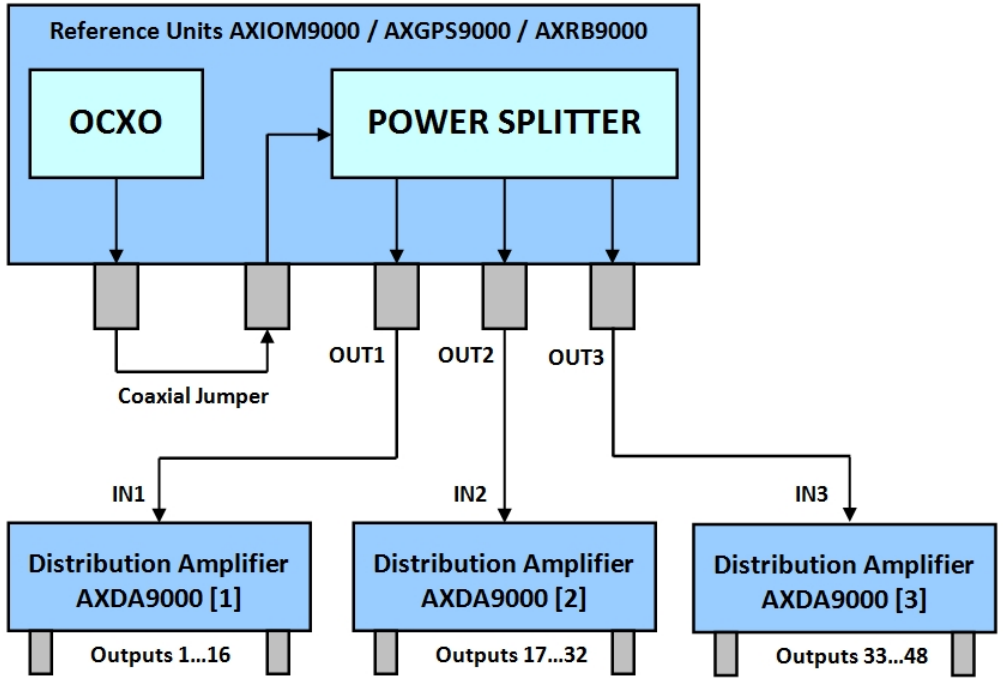
Phase Noise Performance AXTAL9000 Series

AXTAL9000 Series "ULN" Option



Frequency Distribution Block Diagram

Frequency distribution for AXTAL9000 Series Frequency References



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