

OCXO COMPARISON TABLE										
Producer	Model	Aging/ Day Datasheet	Aging/Day Measured**	Aging/Year Datasheet	Pn 1Hz dBc/Hz	Pn 10Hz dBc/Hz	Pn 100Hz dBc/Hz	Pn 1kHz dBc/Hz	Pn 10kHz dBc/Hz	Note
Oscilloquartz	BVA 8607 (5MHz)	1 to 2 e-11*	-	4 e-9	-130*	-145*	-153*	-156*	-156*	Very high performance Ultra low aging rate, Low phase noise
Oscilloquartz	BVA 8600 (5MHz)	1 to 2 e-11*	under test	4 e-9	-120*	-140*	-150*	-155*	-155*	Very high performance
Hewlett Packard	HP106A-B (2.5MHz)	5 e-11	-	-	-	-	-	-	-	High performance
Frequency Electronic	AN/URQ 23 (5MHz)	6.6 e-11	+/- 4.5 e-11	-	na	-130	-140	-160	-165	High performance
Wenzel	Premium (5 MHz) 501-16833	1 e-10			-120	-150	-170	-176	na	High performance Ultra low phase noise 10Hz and up
Datum	FTS1000B (5MHz)	1 e-10 #	-	1 e-8	-116	-140	-150	-157	-160	High performance
Datum	FTS1000 (10MHz)	1 e-10 #	-	1 e-8	na	-134	-144	-150	-153	
Datum	FTS1000A	1 e-10 #	-	1 e-8	-116	-136	-140	-140	na	High performance
MTI	260 (sc cut 5 MHz)	1 e-10*		3 e-8	-110	-140	-150	-160	-164	Excellent performance MTBF?
Austron 1115	1115 (5MHz)	na	+/- 2.8 e-10	-	-	-	-	-	-	Excellent long time performance
Oscilloquartz	8665/6	1 to 3 e-10*	-	3 e-8	-110*	-132*	-140*	-145*	na	Excellent performance
Oscilloquartz	8662/3	2 e-10	-	3 e-8	-80	-110	-135	-145	-145	Excellent performance poor Pn
Oscilloquartz	8676-AT 5 <sup>th</sup> overt.	2 e-10	-	3 e-8	-110*	-132*	-140*	-145*	na	Excellent performance
Hewlett Packard	HP E1938H (10MHz)	2 e-10	-	-	-105	-135	-150			Excellent performance
Morion	MV89A	1 to 5 e-10	-	3 e-8-5 e-9*	-105	-130	-145	-150	-155	Excellent performance *
Wenzel	Standard (5MHz) 501-07176	5 e-10	-	-	-115	-145	-165	-176	na	Good performance Ultra low phase noise 10Hz and up
Wenzel	Premium (10 MHz) 501-16835	5 e-10	-	-	na	-132	-162	-172	-175	Good performance Ultra low phase noise 100Hz and up
Hewlett Packard	HP103Ar	5 e-10	-	-	-	-	-	-	-	-
Hewlett Packard	HP104 AR	5 e-10	-	-	-	-	-	-	-	-
Hewlett Packard	HP105 (5 MHz ocxo)	(10 day stability) 5 e-10	+ 2.4 e-10	-	-	-	-	-	-	Very good short time Adev (1-10k sec.)
Hewlett Packard	HP105B (10811 ocxo)	5 e-10	-	1 e-7	-	-	-	-	-	Good performance
Hewlett Packard	HP107BR	5 e-10	-	-	-	-	-	-	-	Good performance
Hewlett Packard	HP 10544	< 5 e-10	-	< 1 to 1.5 e-7***	na	-115	-120	-125	-130	Good performance
Hewlett Packard	HP10811	< 5 e-10	-	< 1 e-7	-90	-120	-140	-157	-160	Good performance
Sulzer	SULZER 5A (AN/URQ-10)	5 e-10	- 2 e-10	-	-	-	-	-	-	Good performance
Racal	MA259	5 e-10	-	-	-	-	-	-	-	-
Efratom Rubidium	MRT	-	-4 e-12	-	-	-	-	-	-	Compared to GPS to validate the reference

\* Option related (best value reported)

top performance in the range

- ordered by aging rate/day continuous operation-

\*\* Reference source: GPSDO HP Z3816A. Daily peak frequency deviation. + / - are the measured trend.

\*\*\* Different parameter on datasheet

# Aging typically improve up to e-11, have been observed aging rate as low as e-12 after years of unperturbed operation.

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