Technical Data Sheet

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TCXO Technical Report
(Comparison Data)
・TXC 2016 TCXO 38.400MHz
・KDS 2016 DSB211SDN 38.400MHz (1XXD38400MLA)

- Electrical Characteristics Page.2
- Frequency Stabliity vs. Temperature Page.3
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Daishinku
Engineering Section

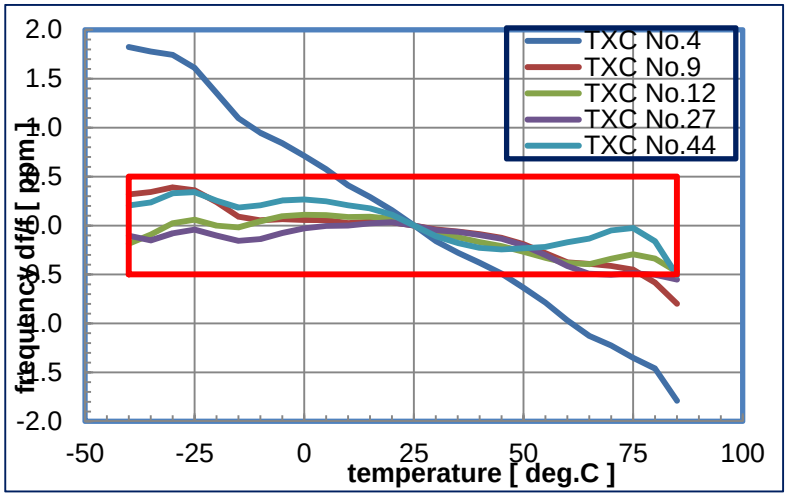
Electrical Characteristics

Table1-1. Electrical Characteristics

	Frequency		df-Vcc		Output Level	Duty	Current
			+2.75V	+2.85V			
	[MHz]	[ppm]	[ppm]	[ppm]	[Vpp]	[%]	[mA]
TXC No.4	38.400071	+1.842	-0.003	-0.004	0.962	50.6	1.279
TXC No.9	38.400074	+1.928	-0.013	+0.005	0.941	49.7	1.300
TXC No.12	38.400062	+1.621	-0.000	+0.003	0.961	50.7	1.283
TXC No.27	38.399930	-1.811	-0.003	+0.002	0.968	50.0	1.314
TXC No.44	38.399915	-2.208	-0.003	+0.001	0.967	49.9	1.298
KDS No.1	38.400001	+0.017	-0.005	+0.011	0.968	49.2	1.438
KDS No.2	38.399988	-0.322	-0.005	+0.005	0.968	49.0	1.420
KDS No.3	38.400002	+0.040	+0.002	+0.012	0.973	49.0	1.417

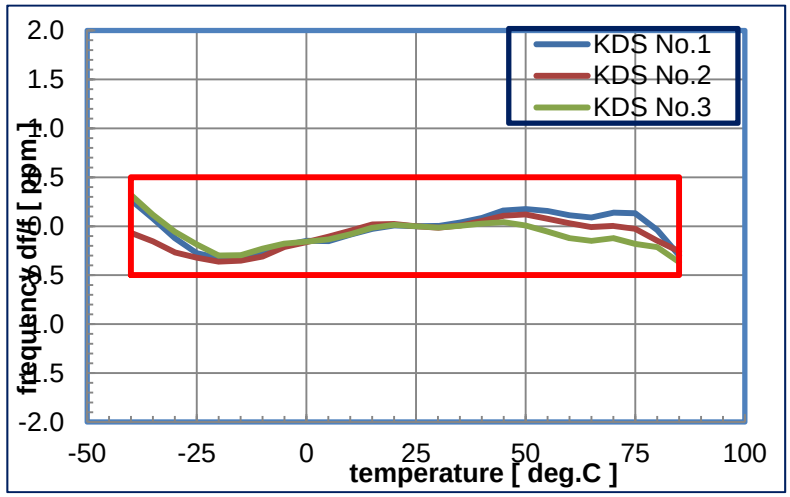
V_{CC}=+3.3, VLoad= 10kohm//10pF,
T_A =Room temp.

Frequency Stability vs.Temperature



TXC

Graph1-1. Freq. Stability vs. Temp.



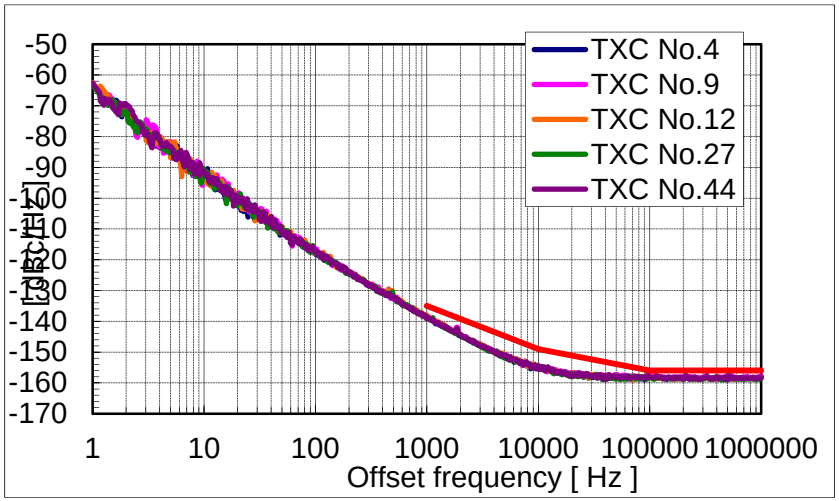
KDS

Graph1-2. Freq. Stability vs. Temp.

Vcc=+3.3V
Load= 10kohm//10pF

: SPEC
+/-0.5ppm/ -40 to +85deg.C

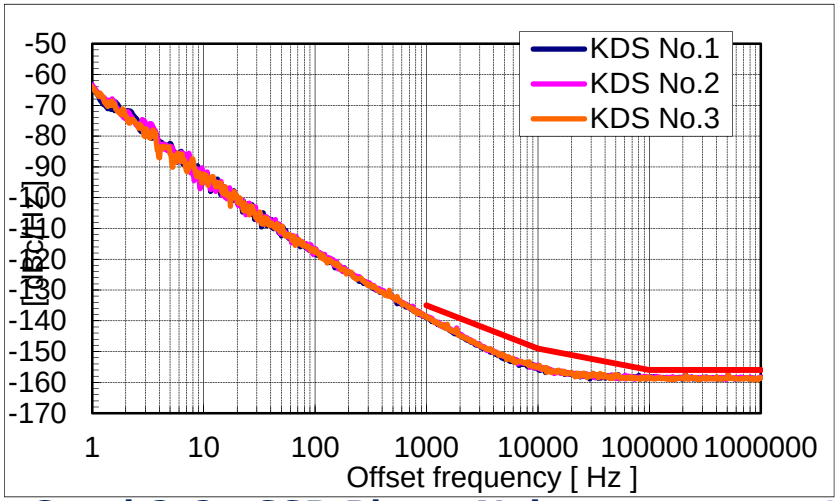
SSB Phase Noise



Graph2-1. SSB Phase Noise **TXC**

[dBc/Hz]

Offset freq. [Hz]	TXC No.4	TXC No.9	TXC No.12	TXC No.27	TXC No.44
1	-62.79	-62.90	-62.46	-63.16	-62.62
10	-91.36	-92.12	-94.70	-91.84	-91.78
100	-117.84	-117.45	-117.04	-118.03	-117.02
1k	-138.96	-138.48	-137.97	-138.62	-139.11
10k	-155.42	-154.30	-154.59	-154.85	-155.15
100k	-158.13	-157.15	-158.15	-158.23	-158.07



Graph2-2. SSB Phase Noise **KDS**

[dBc/Hz]

Offset freq. [Hz]	KDS No.1	KDS No.2	KDS No.3
1	-64.22	-63.42	-64.05
10	-93.53	-91.69	-92.33
100	-118.36	-117.62	-117.74
1k	-138.98	-138.63	-138.88
10k	-155.21	-154.37	-155.29
100k	-158.51	-158.26	-158.32

V_{CC}=+3.3V
T_A =Room temp.