

Technical Data of Ceramic Resonator

Type CSTCC8.00MG

Applied to M34580E4

TOYAMA MURATA MANUFACTURING CO., LTD.

Product Engineering Service Section I

Planning Department

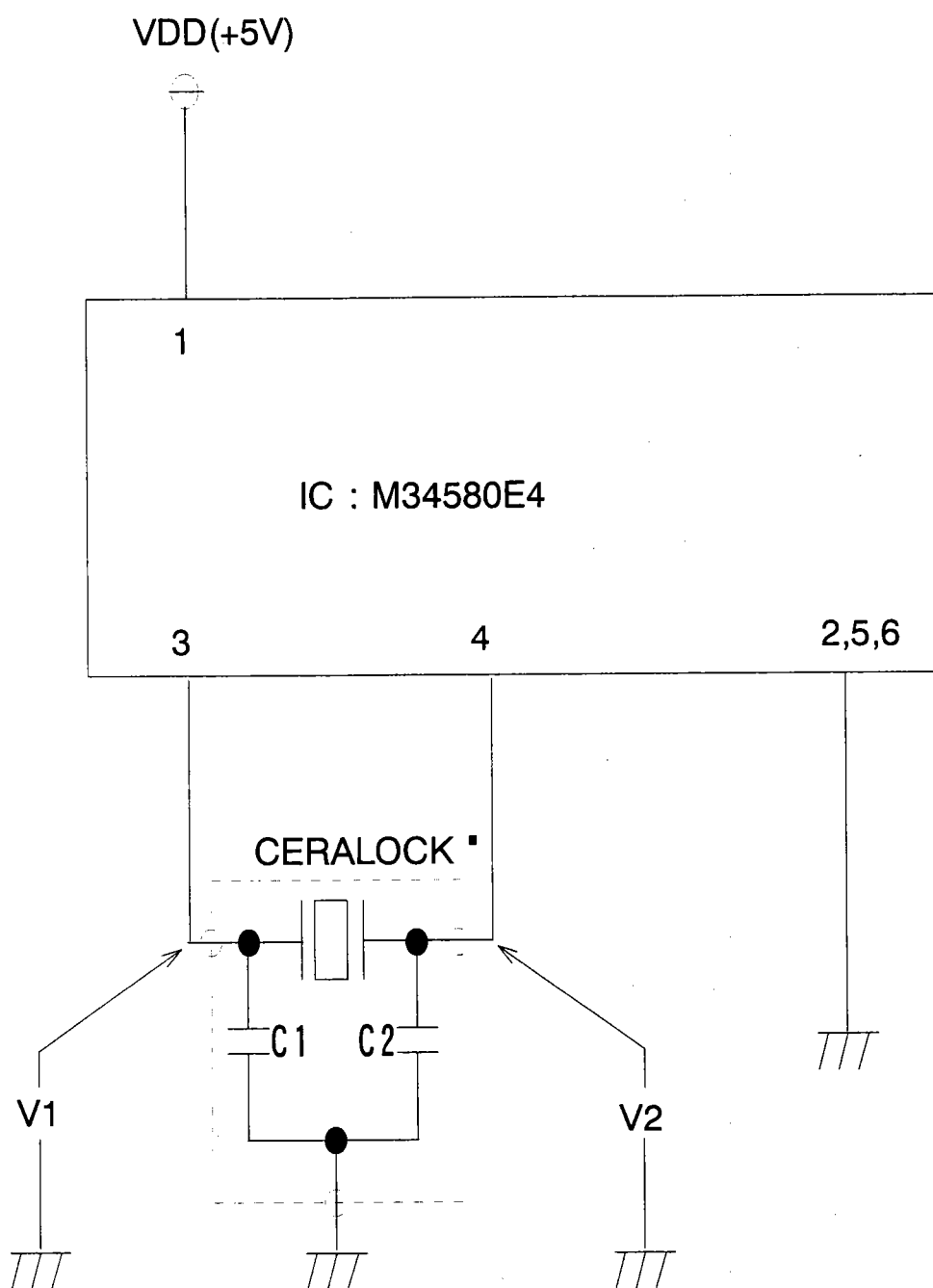
Piezoelectric Components Group

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Test Circuit



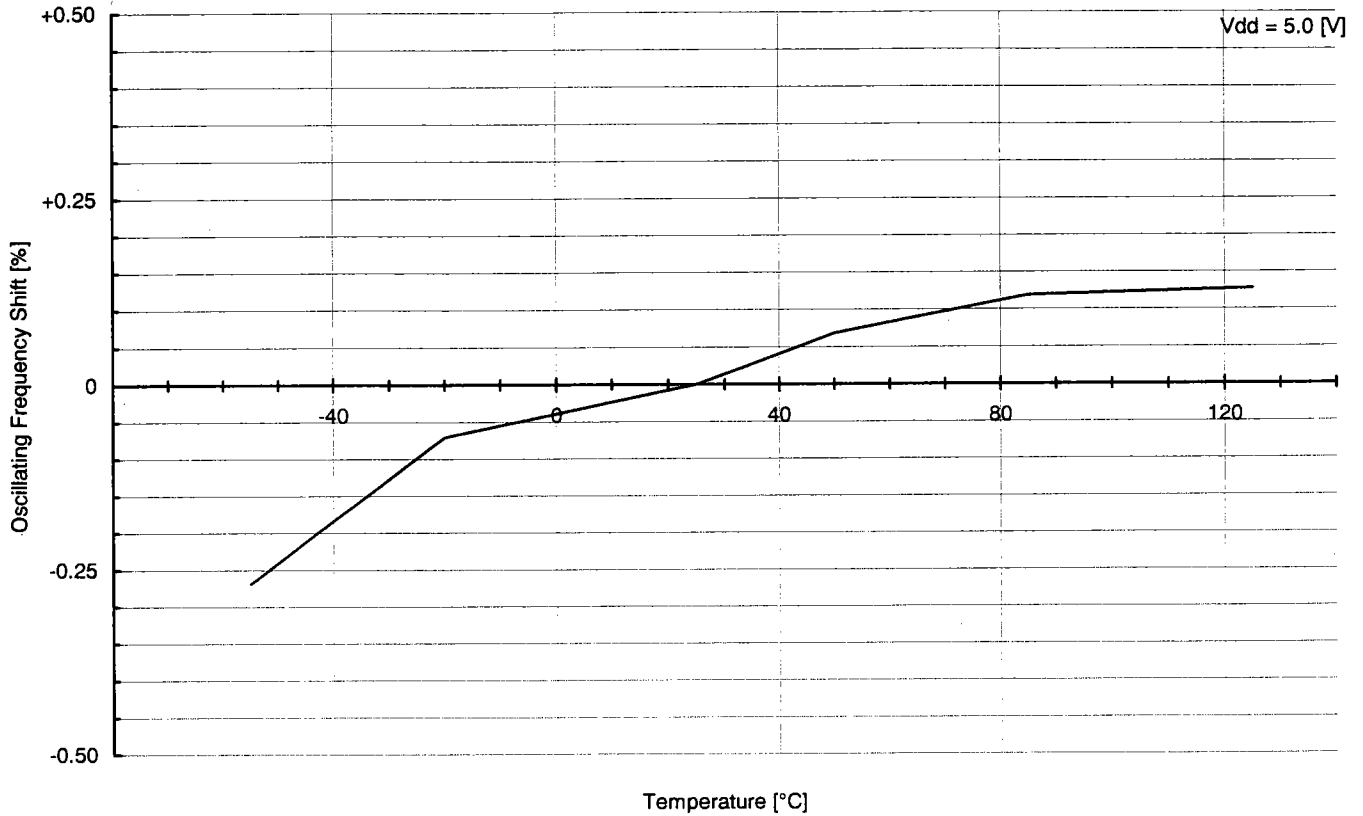
Recommendable Value

CERALOCK® : CSTCC8.00MG

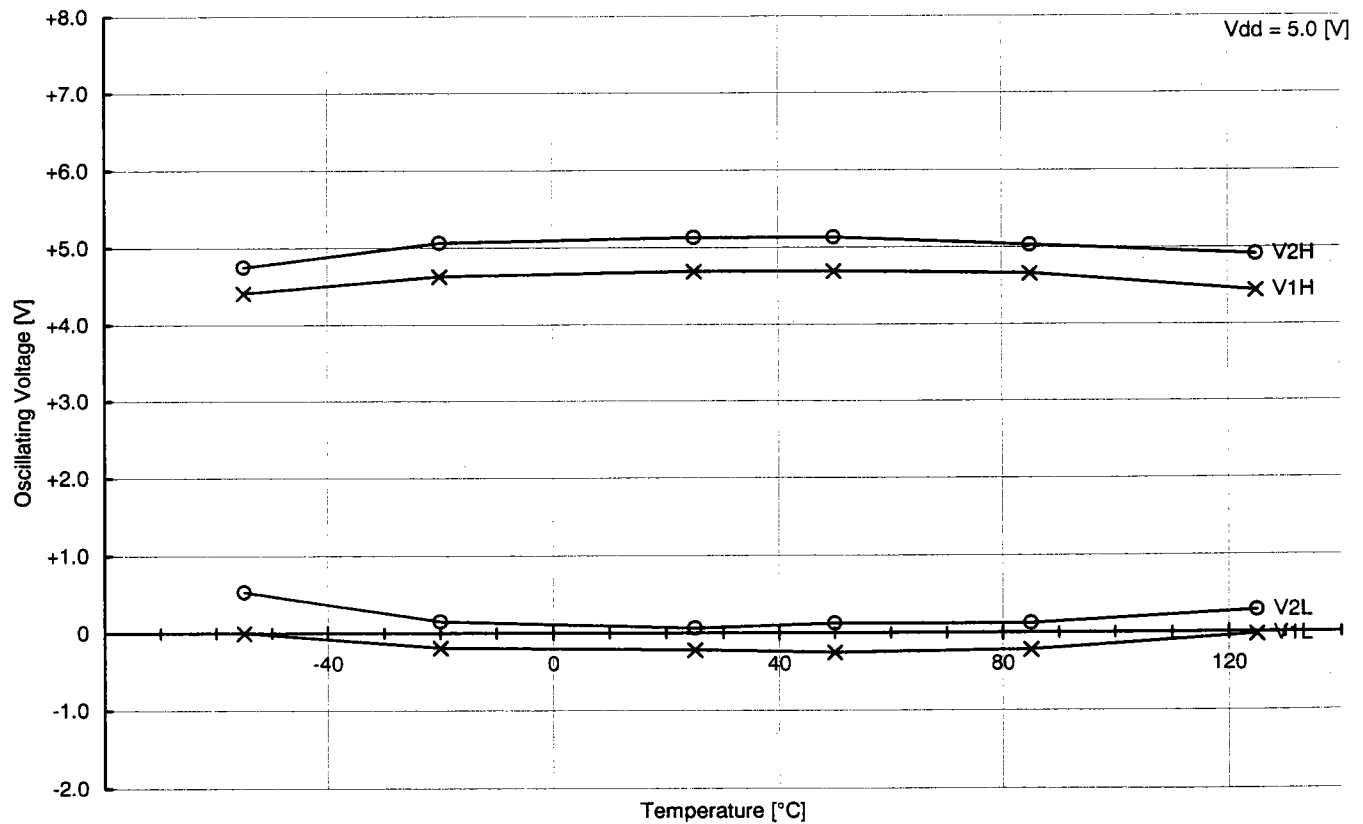
C1 = 15 [pF] (typ.)

C2 = 15 [pF] (typ.)

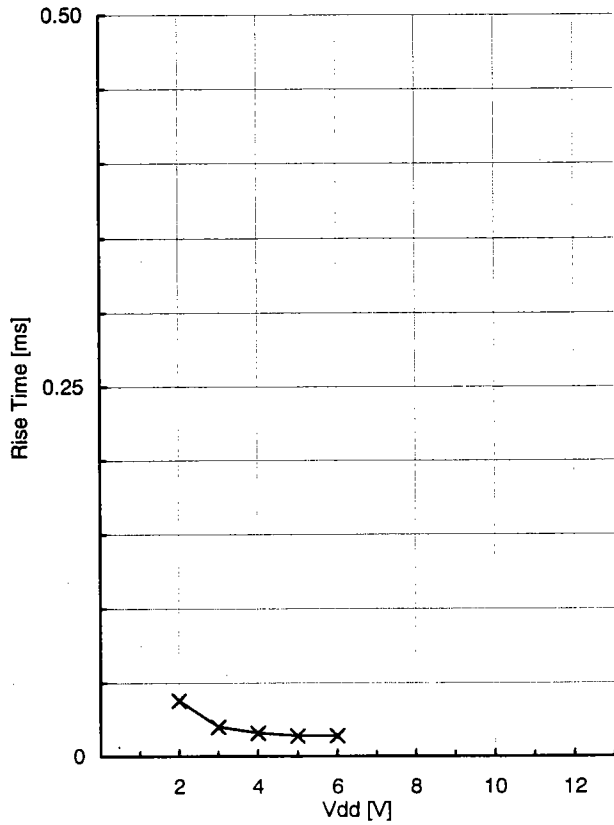
Temperature Characteristics of Oscillating Frequency
MODEL : CSTCC8.00MG with M34580E4



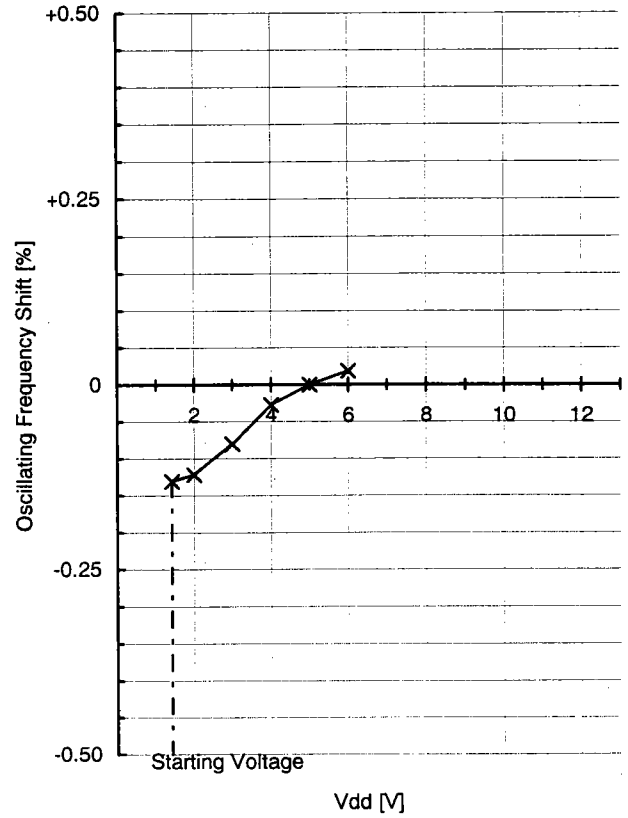
Temperature Characteristics of Oscillating Voltage
MODEL : CSTCC8.00MG with M34580E4



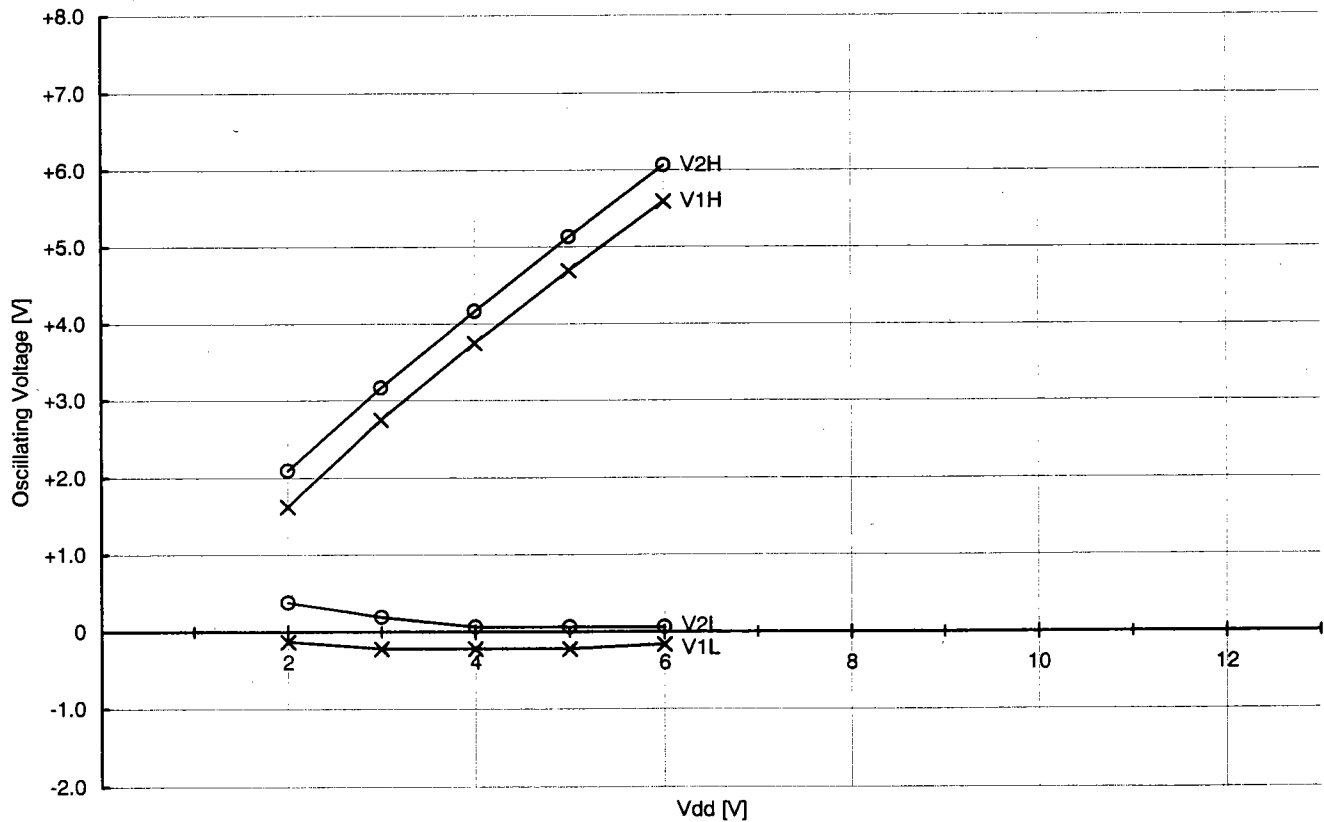
Rise Time vs Vdd Characteristics
MODEL : CSTCC8.00MG with M34580E4



Oscillating Frequency vs Vdd Characteristics
MODEL : CSTCC8.00MG with M34580E4



Oscillating Voltage vs Vdd Characteristics
MODEL : CSTCC8.00MG with M34580E4



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Comparison Table

IC : No	V1H [V]	V1L [V]	V1p-p [V]	V2H [V]	V2L [V]	V2p-p [V]	Fosc [kHz]	Trise [ms]	Vstart [V]
LL-1	4.69	-0.22	4.91	5.13	0.03	5.10	8035.109	0.020	1.08
LL-2	4.72	-0.25	4.97	5.16	0.03	5.13	8034.692	0.012	1.09
TT-3	4.69	-0.22	4.91	5.13	0.06	5.07	8034.447	0.020	1.42
TT-4	4.72	-0.31	5.03	5.19	0.03	5.16	8034.397	0.016	1.40
HH-5	4.72	-0.31	5.03	5.19	0.03	5.16	8033.793	0.016	1.67
HH-6	4.75	-0.31	5.06	5.19	0.06	5.13	8033.743	0.014	1.67

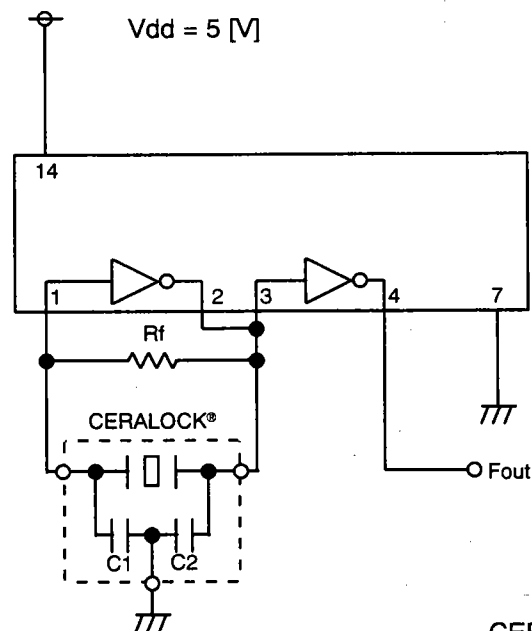
Ref.

Performance described page 2 to 3 were measured with IC No. TT-3

Frequency Correlation Data

Sample No.	M34580E4 Fosc [kHz]	CD4069UBE Fosc [kHz]	Shift [%]
1	8035.224	8006.442	0.3595
2	8047.958	8022.031	0.3232
3	8024.394	7996.795	0.3451
4	8029.464	8004.880	0.3071
5	8033.725	8008.965	0.3092
$\bar{X}$	8034.153	8007.823	0.3288

muRata Standard Circuit



CERALOCK® : CSTCC8.00MG

C1 = 15 [pF] (typ.)

C2 = 15 [pF] (typ.)

Rf = 1 [Mohm]