

Technical Data of Ceramic Resonator

Type CSTCC6.00MG

Applied to M34580E4

TOYAMA MURATA MANUFACTURING CO., LTD.

Product Engineering Service Section I

Planning Department

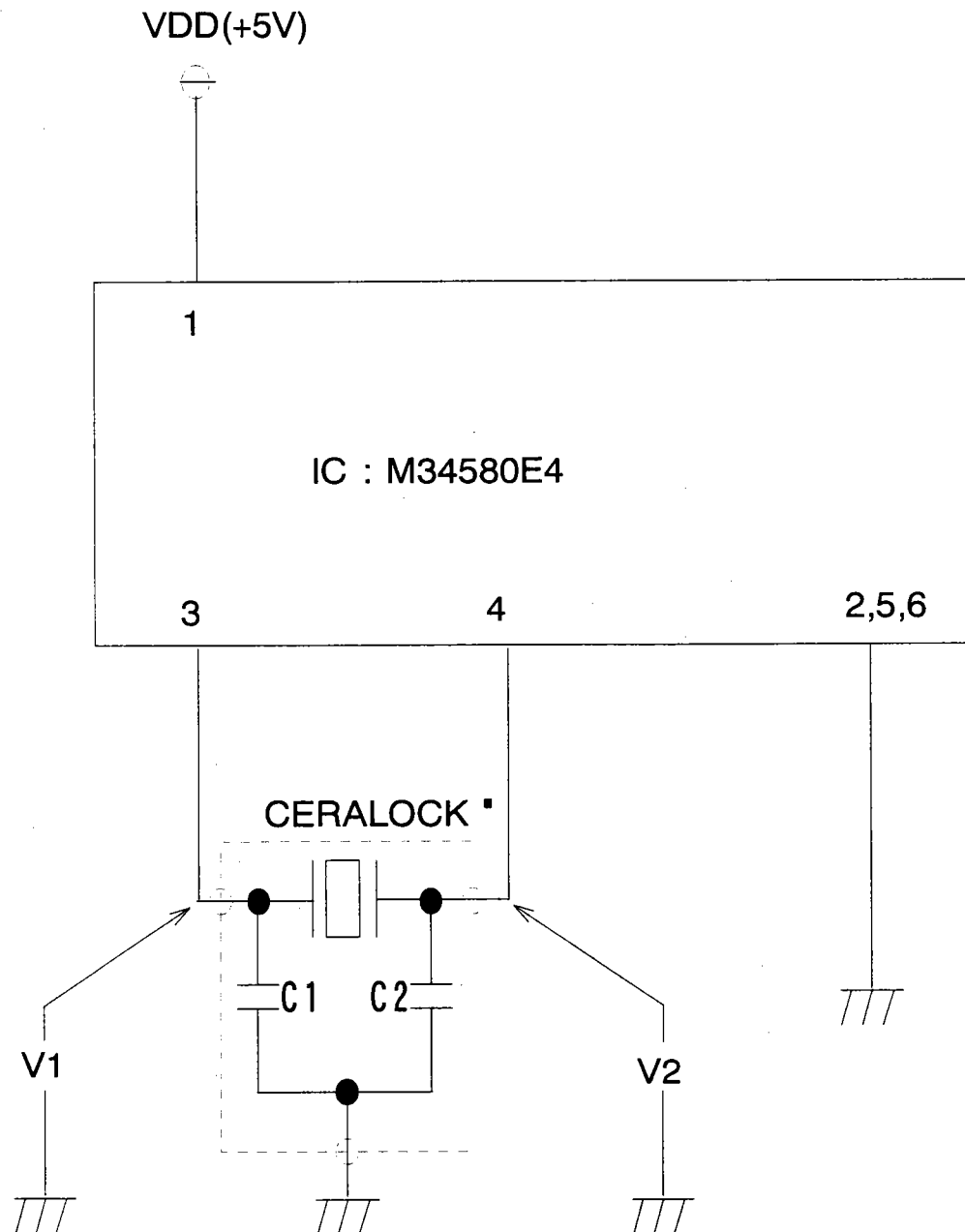
Piezoelectric Components Group

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Contents

1.	Test Circuit	1
2.	Temperature Characteristics of Oscillating Frequency, Oscillating Voltage	2
3.	Rise Time, Oscillating Frequency, Oscillating Voltage vs Vdd Characteristics	3

Test Circuit



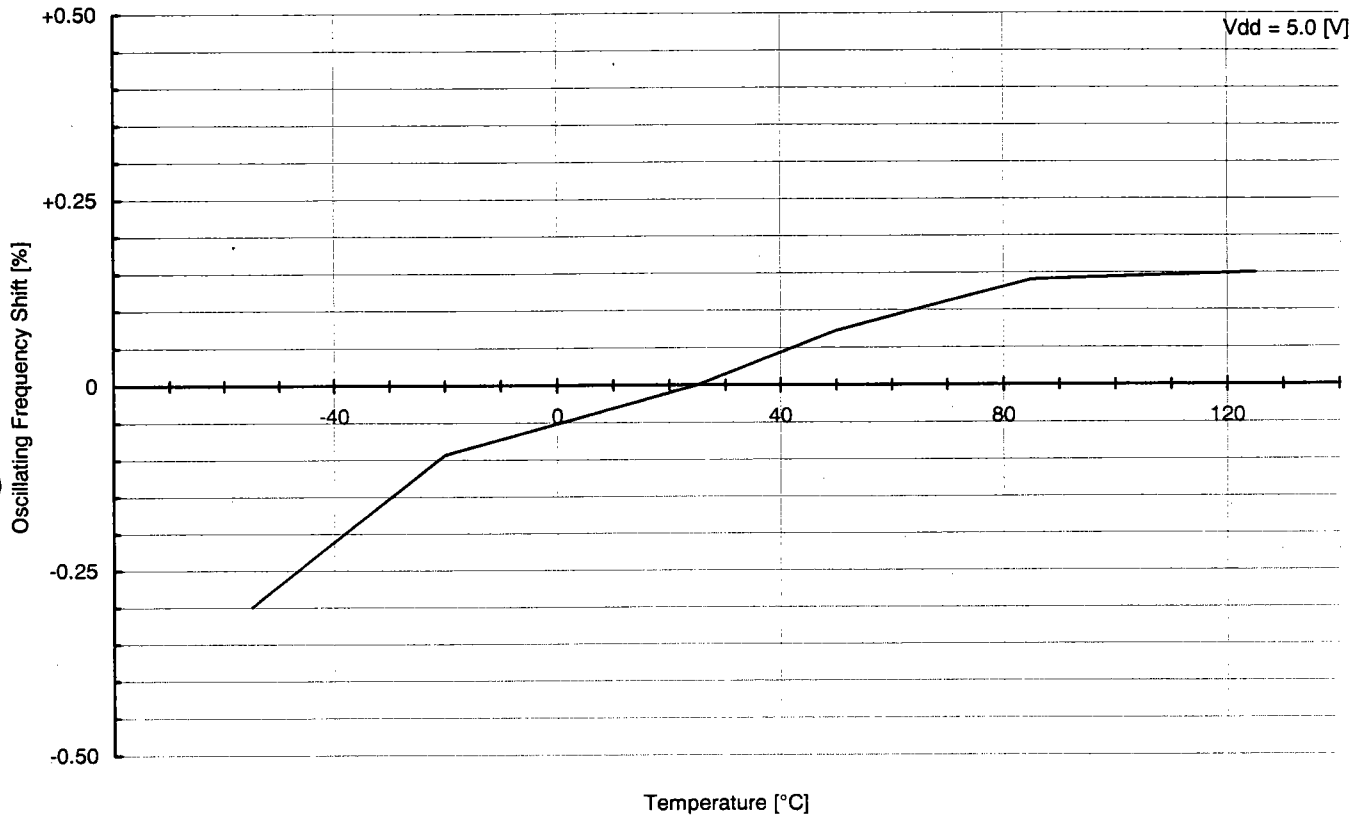
Recommendable Value

CERALOCK® : CSTCC6.00MG

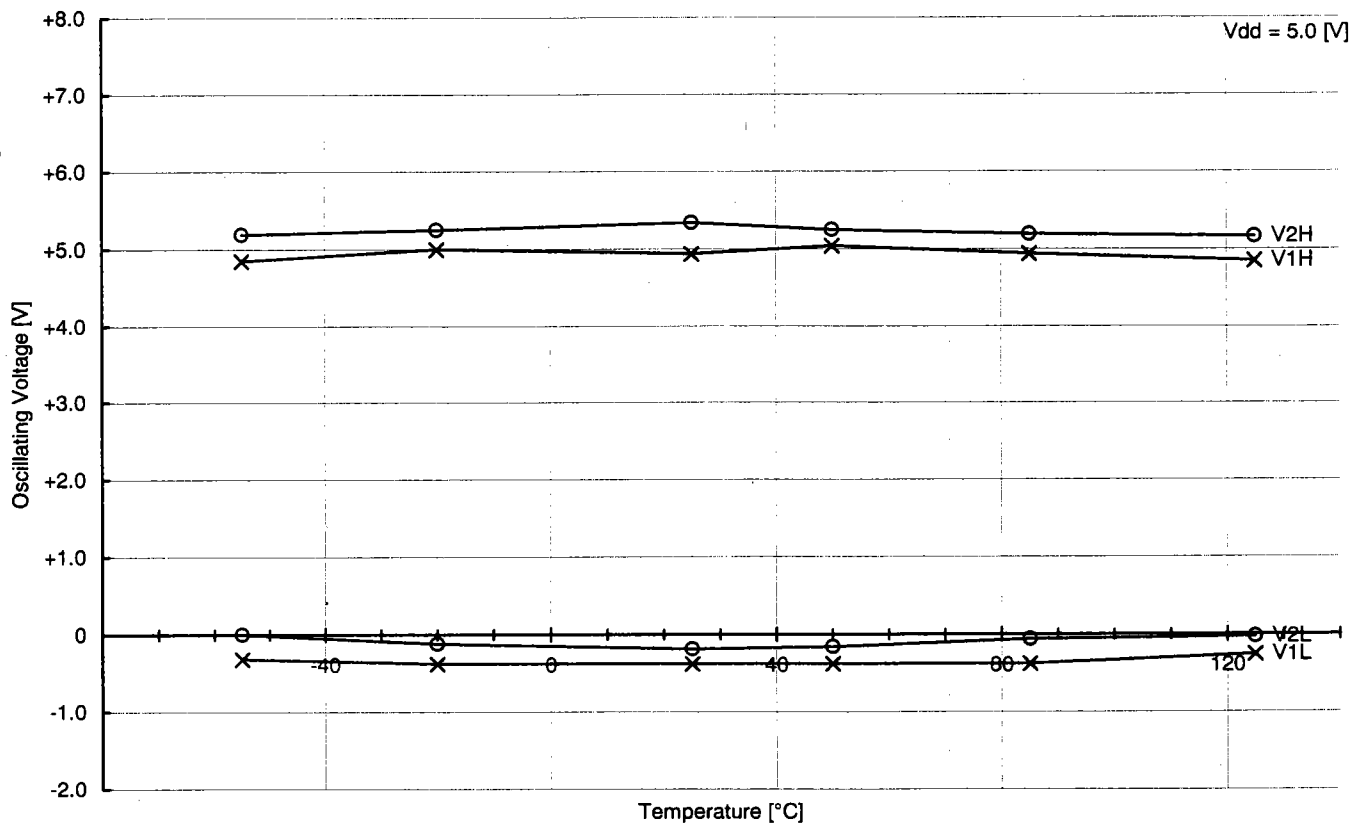
C1 = 15 [pF] (typ.)

C2 = 15 [pF] (typ.)

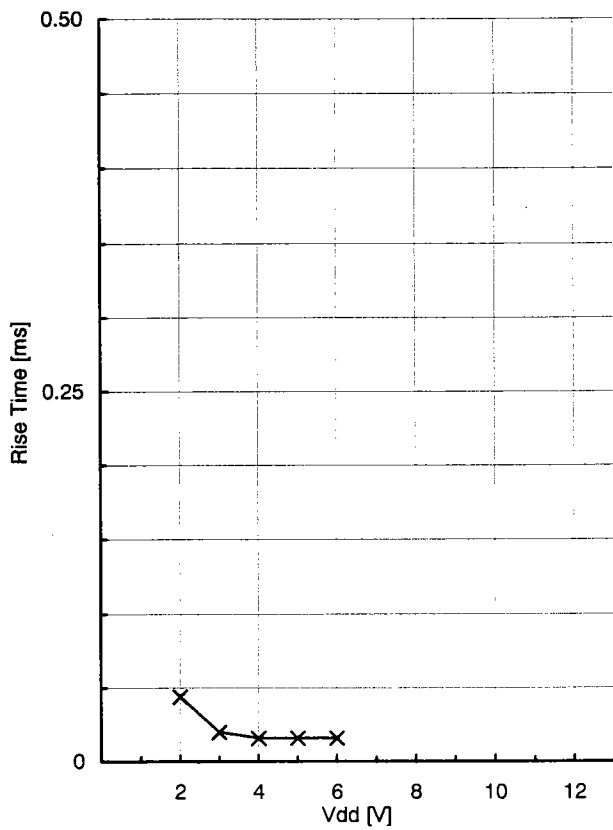
Temperature Characteristics of Oscillating Frequency
MODEL : CSTCC6.00MG with M34580E4



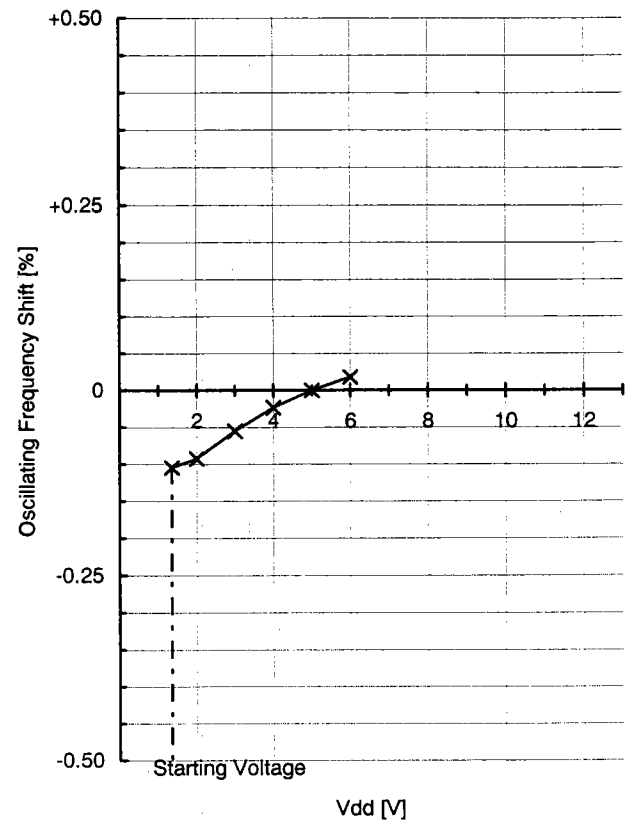
Temperature Characteristics of Oscillating Voltage
MODEL : CSTCC6.00MG with M34580E4



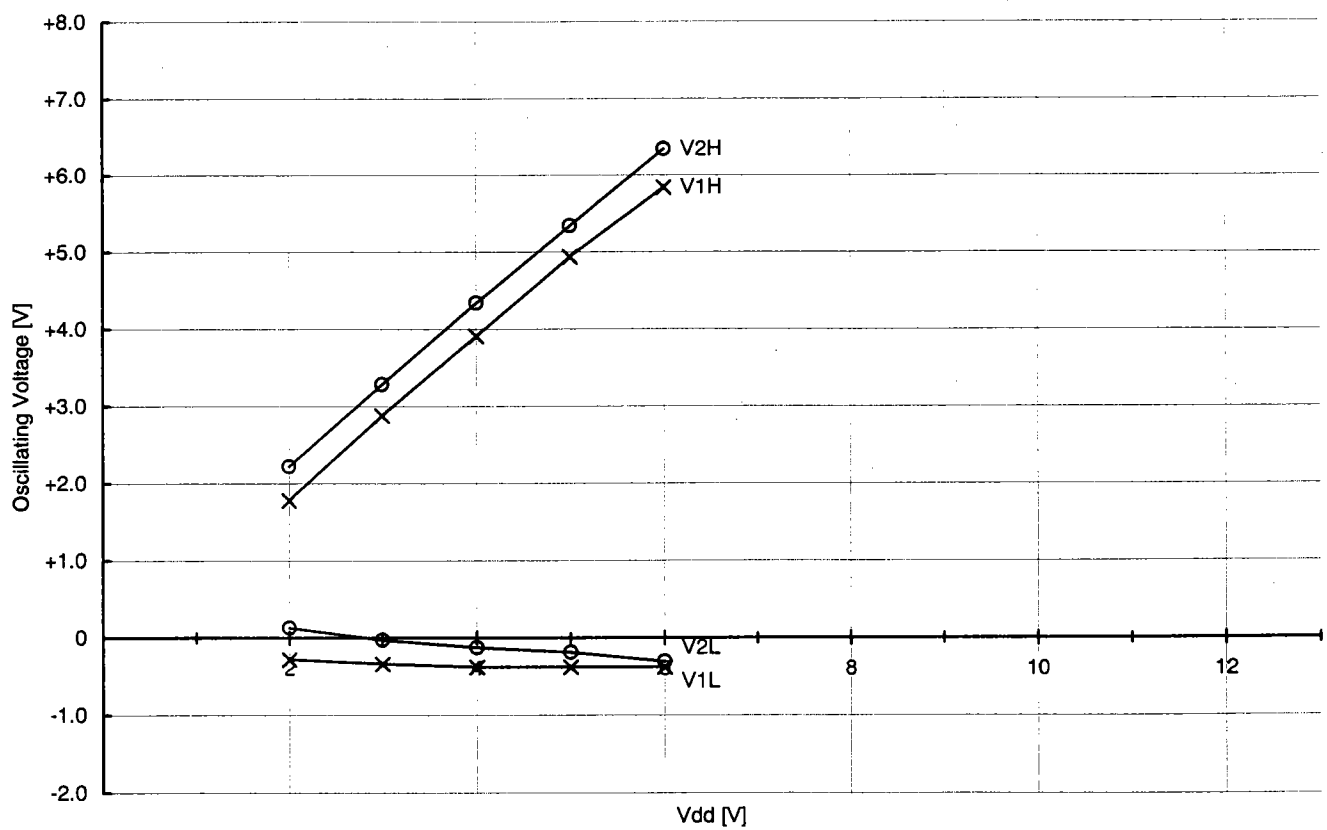
Rise Time vs Vdd Characteristics
MODEL : CSTCC6.00MG with M34580E4



Oscillating Frequency vs Vdd Characteristics
MODEL : CSTCC6.00MG with M34580E4



Oscillating Voltage vs Vdd Characteristics
MODEL : CSTCC6.00MG with M34580E4



Appendixes

4.	Comparison Table	4
5.	Frequency Correlation Data	5

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	4.88	-0.34	5.22	5.31	-0.19	5.50	6018.481	0.016	1.00
LL-2	4.88	-0.34	5.22	5.31	-0.19	5.50	6018.155	0.016	1.03
TT-3	4.94	-0.38	5.32	5.34	-0.19	5.53	6017.704	0.016	1.34
TT-4	4.94	-0.38	5.32	5.34	-0.19	5.53	6017.847	0.020	1.33
HH-5	4.94	-0.41	5.35	5.38	-0.19	5.57	6017.329	0.016	1.60
HH-6	4.94	-0.41	5.35	5.38	-0.19	5.57	6017.441	0.016	1.59

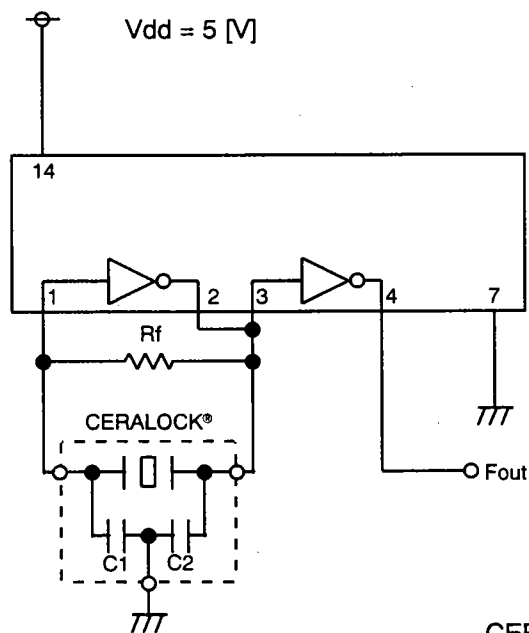
Ref.

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	6017.767	5999.238	0.3089
2	6020.008	6001.171	0.3139
3	5997.632	5977.937	0.3295
4	6000.621	5981.474	0.3201
5	5995.181	5976.872	0.3063
$\bar{X}$	6006.242	5987.338	0.3157

muRata Standard Circuit



CERALOCK® : CSTCC6.00MG

C1 = 15 [pF] (typ.)

C2 = 15 [pF] (typ.)

Rf = 1 [Mohm]