




Technical Data of Ceramic Resonator

MURATA Part No.: CSTLS10M0G53-B0

Applied to HD64F38124H

TOYAMA MURATA MANUFACTURING CO., LTD.

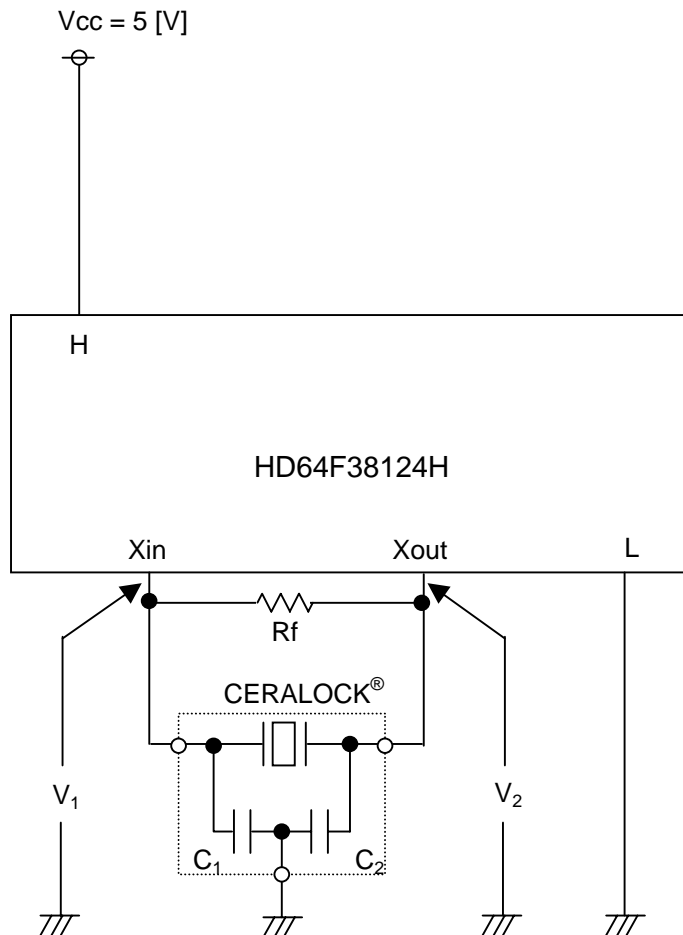
Product Engineering Service Section VI
Piezoelectric Planning & Market Promotion Department II
Piezoelectric Components Division
Device Business Unit

| Approved by | Checked by | Issued by | Issued Date | Data No. |
|---|--|---|-------------|-------------|
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Test Circuit



Xin : 10

Xout: 9

H : 1,4,52

L : 8,53

Recommended Value

CERALOCK[®] : CSTLS10M0G53-B0

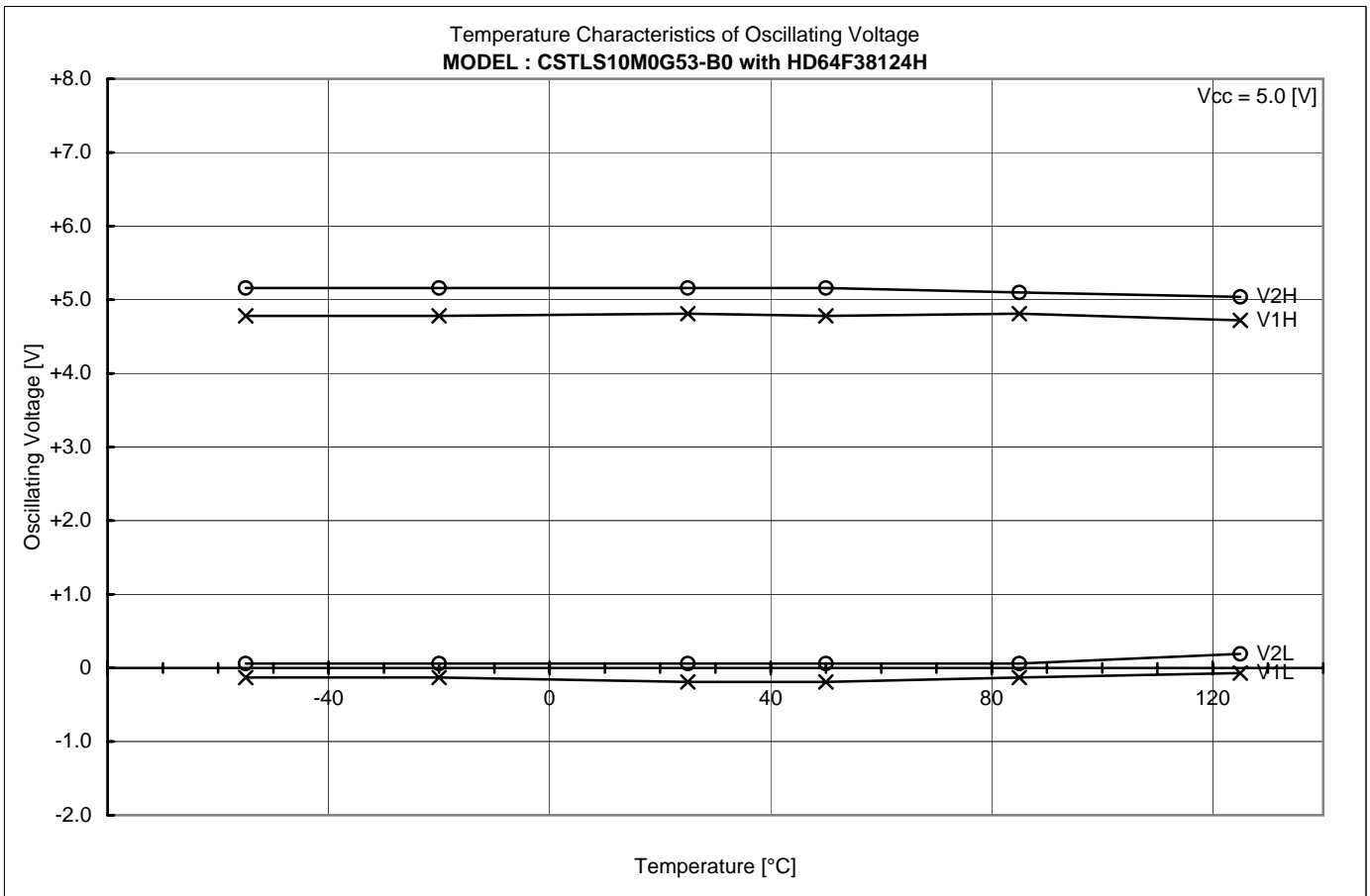
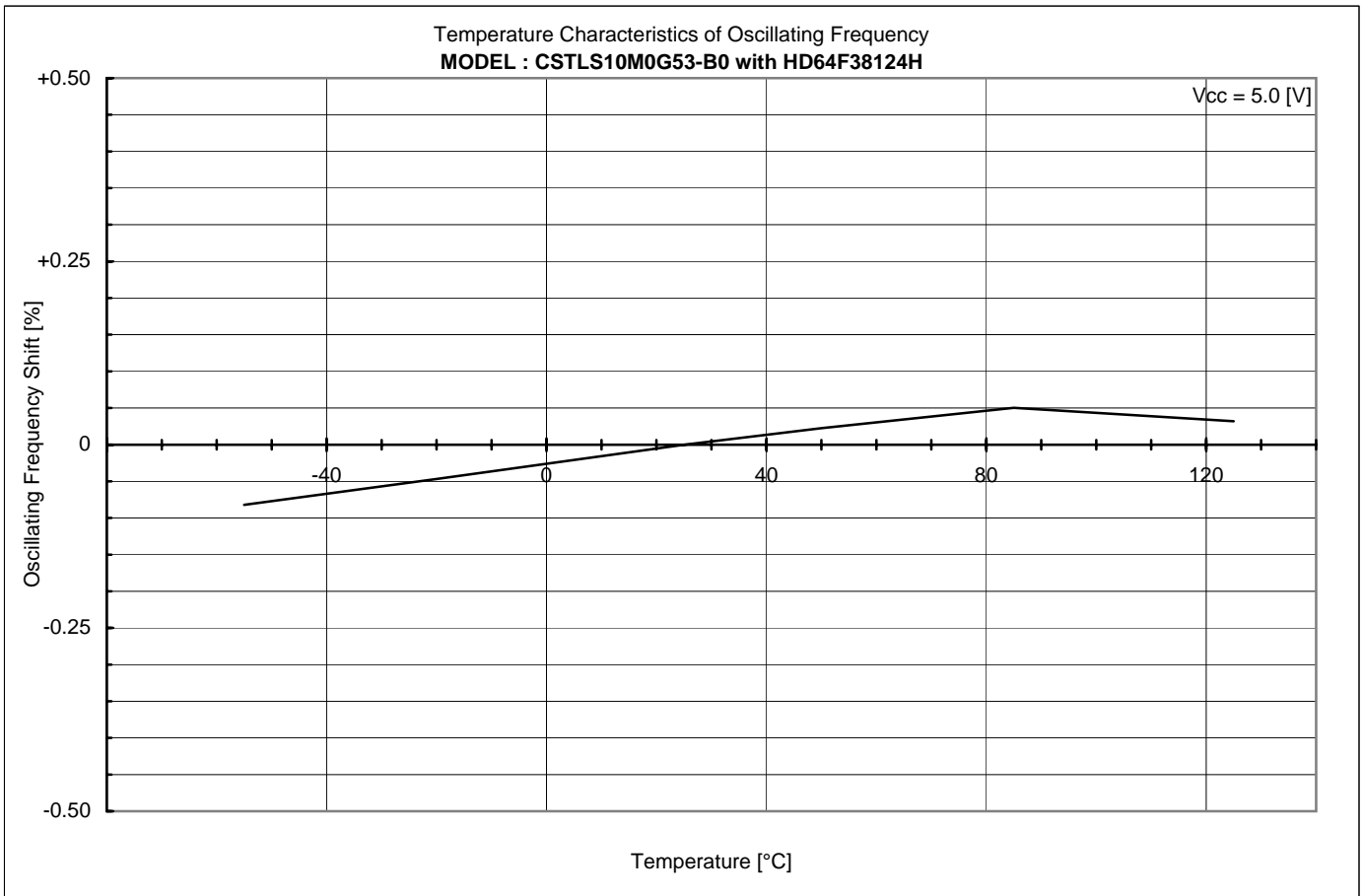
Vcc = 2.7 to 5.5 [V]

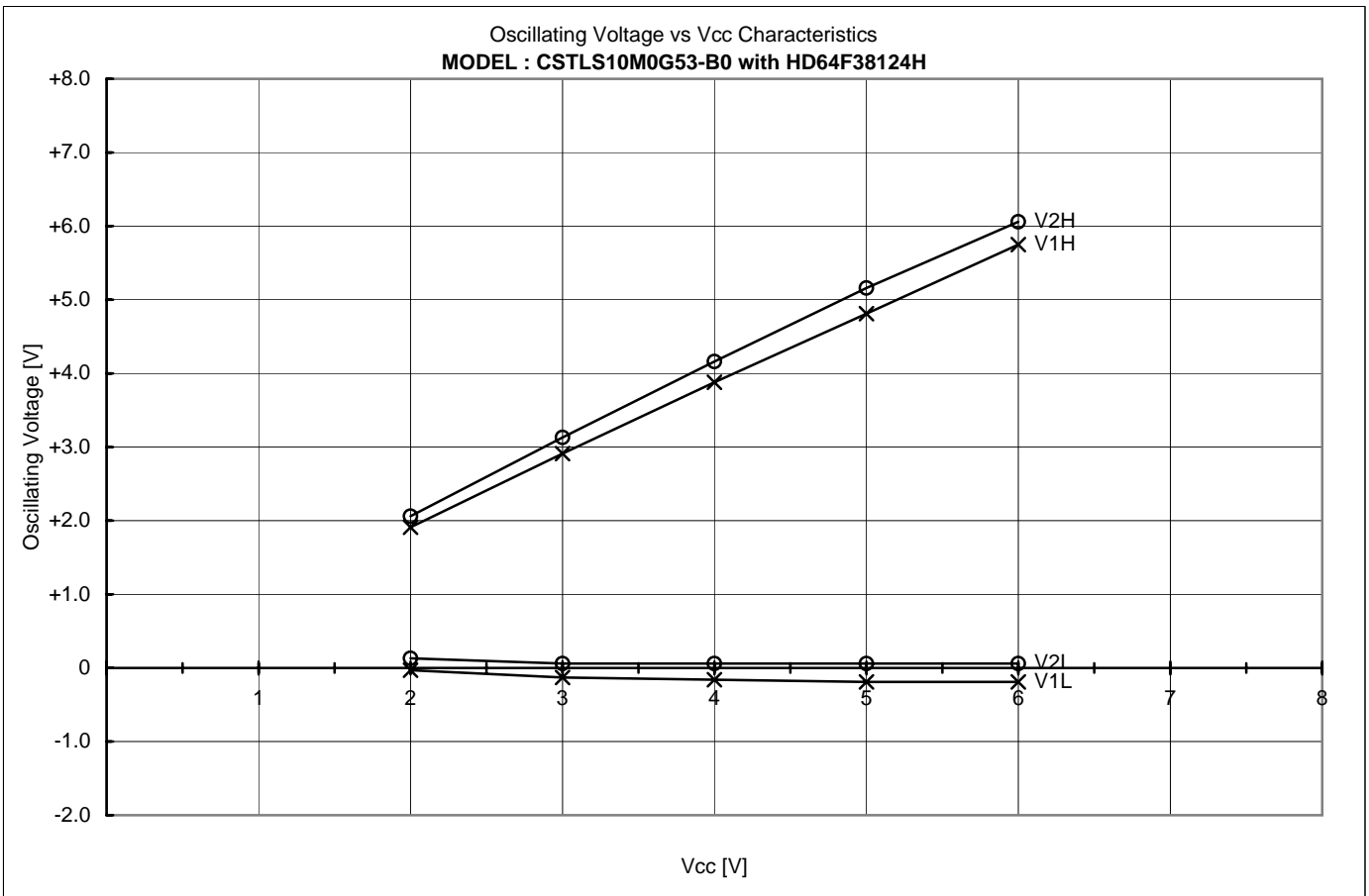
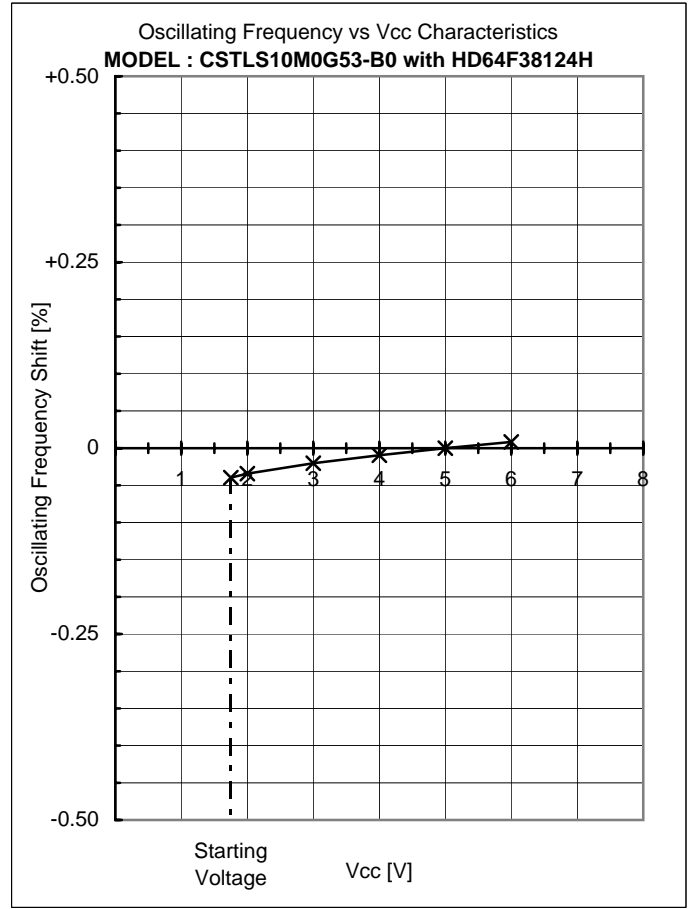
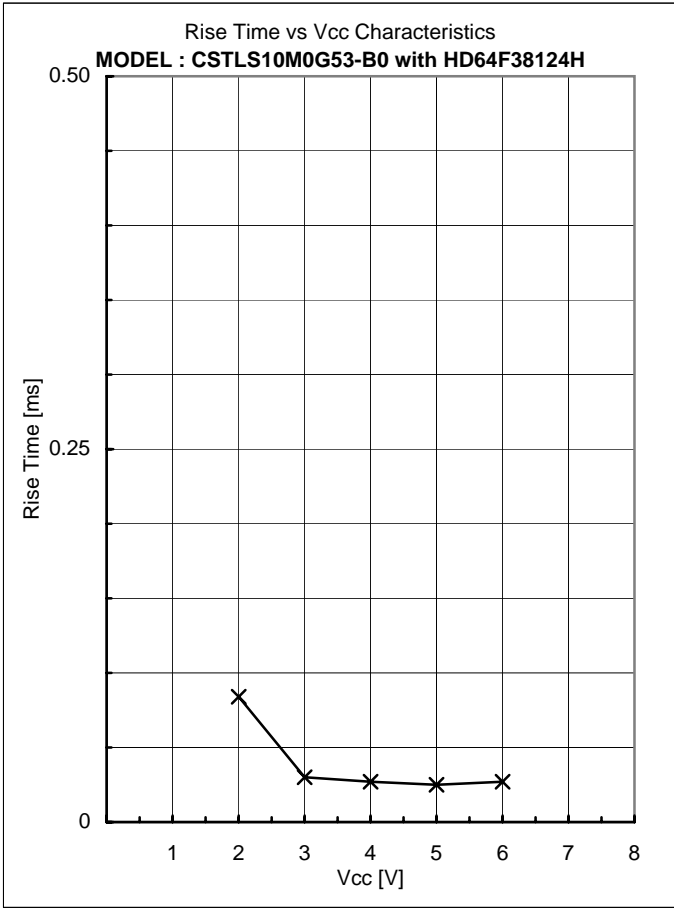
C1 = 15 [pF] (Typ.)

C2 = 15 [pF] (Typ.)

Rf = 1 [Mohm]

Ta = -40 to 85 [°C]





Appendixes

4. Comparison Table

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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] |
|---------|---------|---------|-----------|---------|---------|-----------|------------|------------|------------|
| なし | 4.81 | -0.19 | 5.00 | 5.16 | 0.06 | 5.10 | 10017.790 | 0.025 | 1.75 |
| N高P低 | 4.81 | -0.07 | 4.88 | 5.13 | 0.12 | 5.01 | 10017.323 | 0.032 | 1.70 |
| N低P高 | 4.71 | -0.13 | 4.84 | 5.13 | 0.06 | 5.07 | 10018.978 | 0.027 | 1.80 |
| SG太太 | 4.74 | -0.07 | 4.81 | 5.16 | 0.09 | 5.07 | 10017.724 | 0.030 | 1.75 |
| SG細細 | 4.74 | -0.13 | 4.87 | 5.13 | 0.09 | 5.04 | 10017.537 | 0.029 | 1.78 |

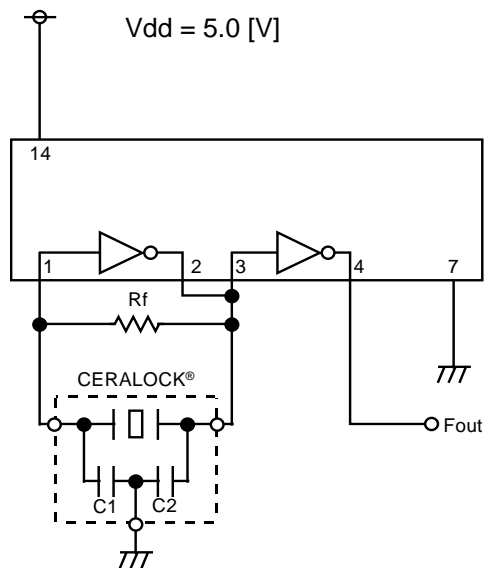
Ref.

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

Frequency Correlation Data

| Sample No. | HD64F38124H Fosc [kHz] | TC4069UBP Fosc [kHz] | Shift [%] |
|------------|---------------------------|-------------------------|-----------|
| 1 | 10017.951 | 9982.878 | 0.3513 |
| 2 | 10008.203 | 9976.168 | 0.3211 |
| 3 | 10044.846 | 10011.500 | 0.3331 |
| 4 | 10004.901 | 9973.333 | 0.3165 |
| 5 | 10002.459 | 9970.726 | 0.3183 |
| \bar{X} | 10015.672 | 9982.921 | 0.3281 |

muRata Standard Circuit



CERALOCK® : CSTLS10M0G53-B0

C1 = 15 [pF]

C2 = 15 [pF]

Rf = 1 [Mohm]