

Technical Data of Ceramic Resonator

MURATA Part No.: CSTLS16M0X51-B0

Applied to M30622SAFP

Note: Suffix indicates packaging style.

- Lead type
 - A0 : Flat pack package(Ho=18mm)
 - B0 : Bulk
- SMD type
 - R0 : Plastic tape package(Ø=180mm)
 - B0 : Bulk

TOYAMA MURATA MANUFACTURING CO., LTD.

Product Engineering Service Section I
Planning Department
Piezoelectric Components Group

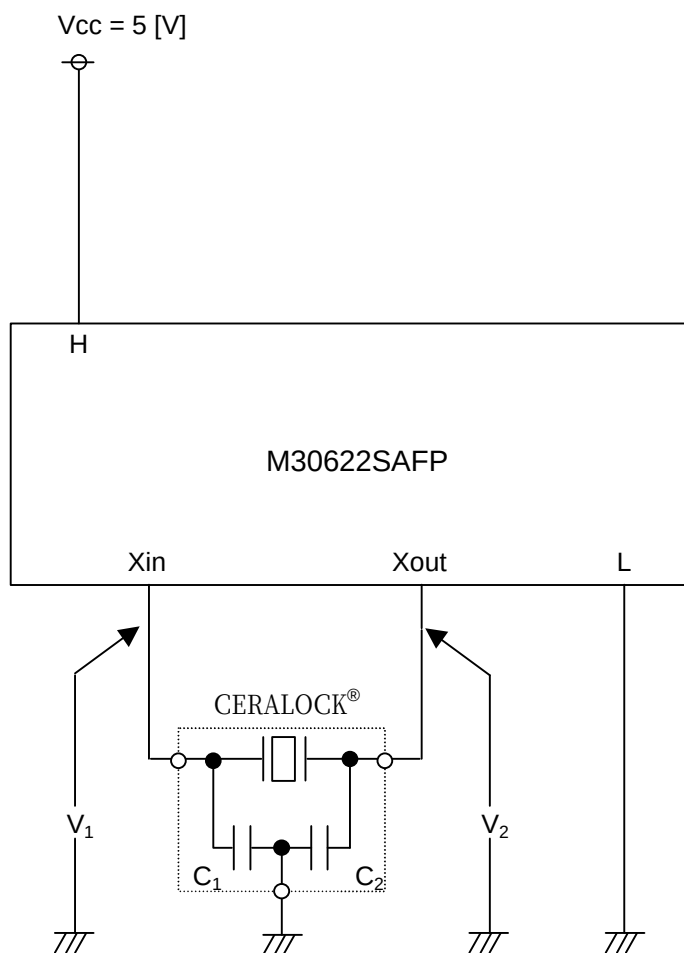
Approved by	Checked by	Checked by	Issued by	Issued Date	Data No.
 K.Terada	 K.Maruno	 K.Masaki	 K.Tagata	Sep 17, 2001	TCD-01-1545



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Test Circuit



Xin : 15

Xout: 13

H : 16,61,62,73~80,99

L : 8,11,14,29,30,64,81~84,96,98

Recommended Value

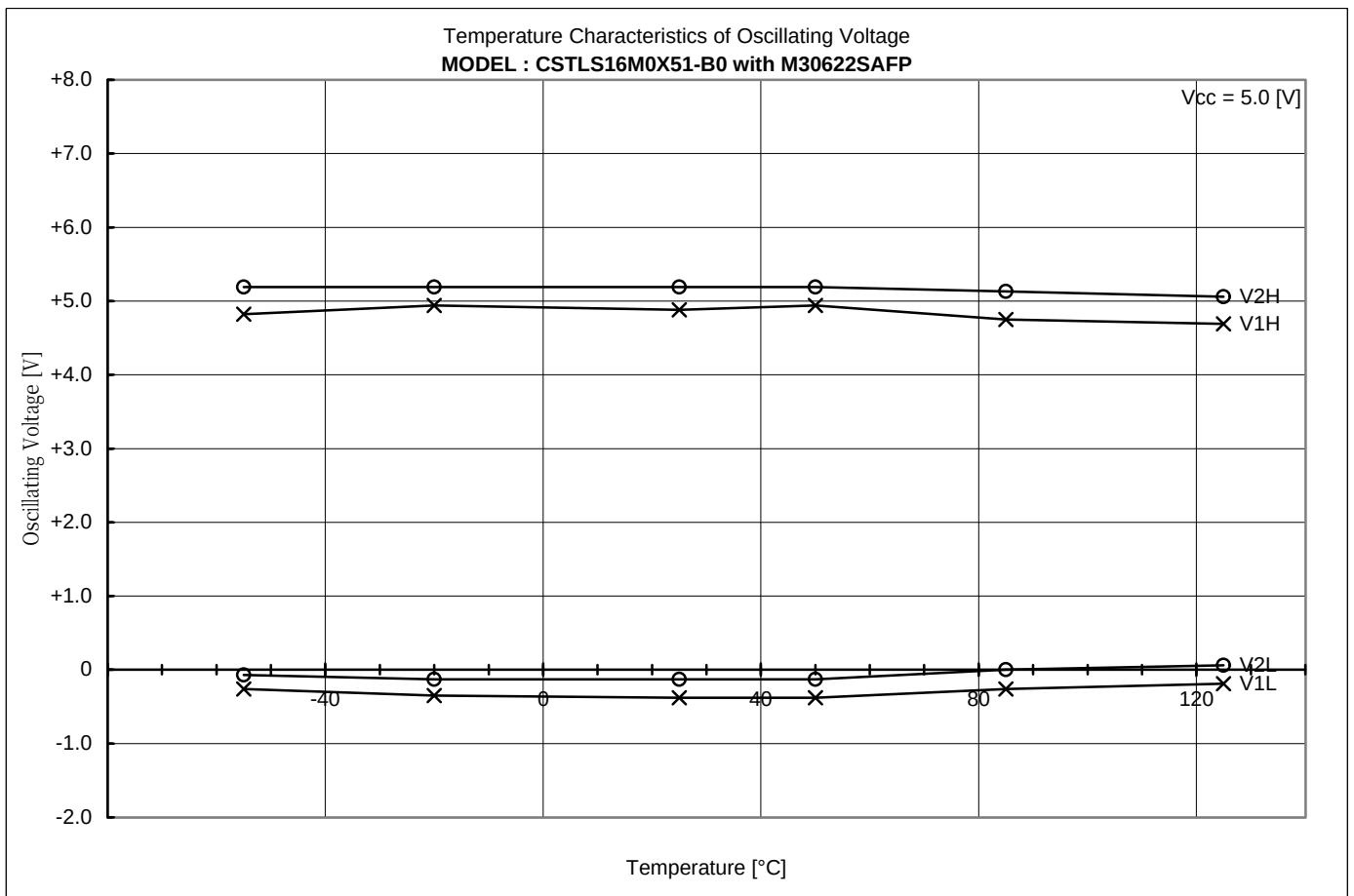
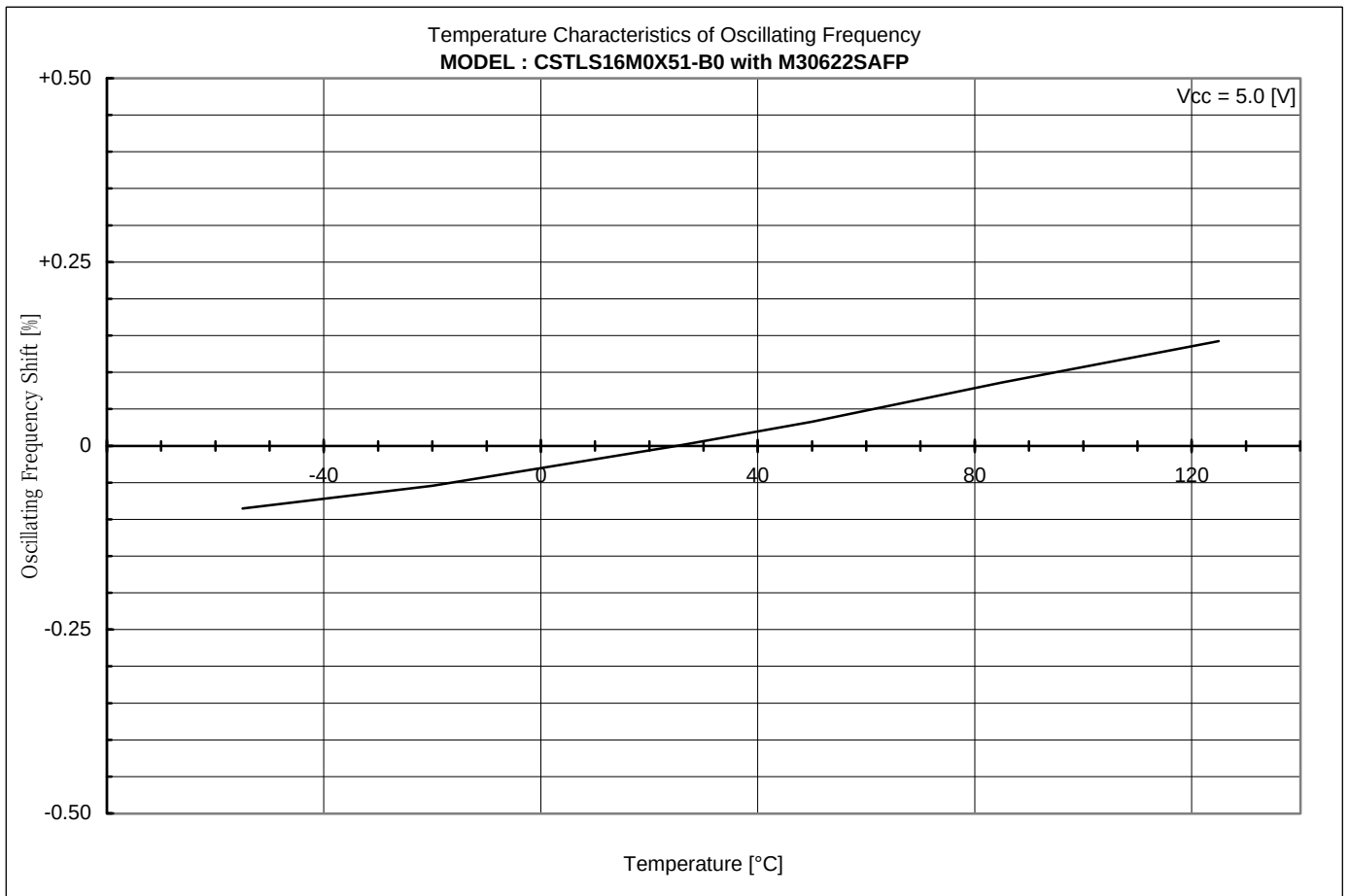
CERALOCK® : CSTLS16M0X51-B0

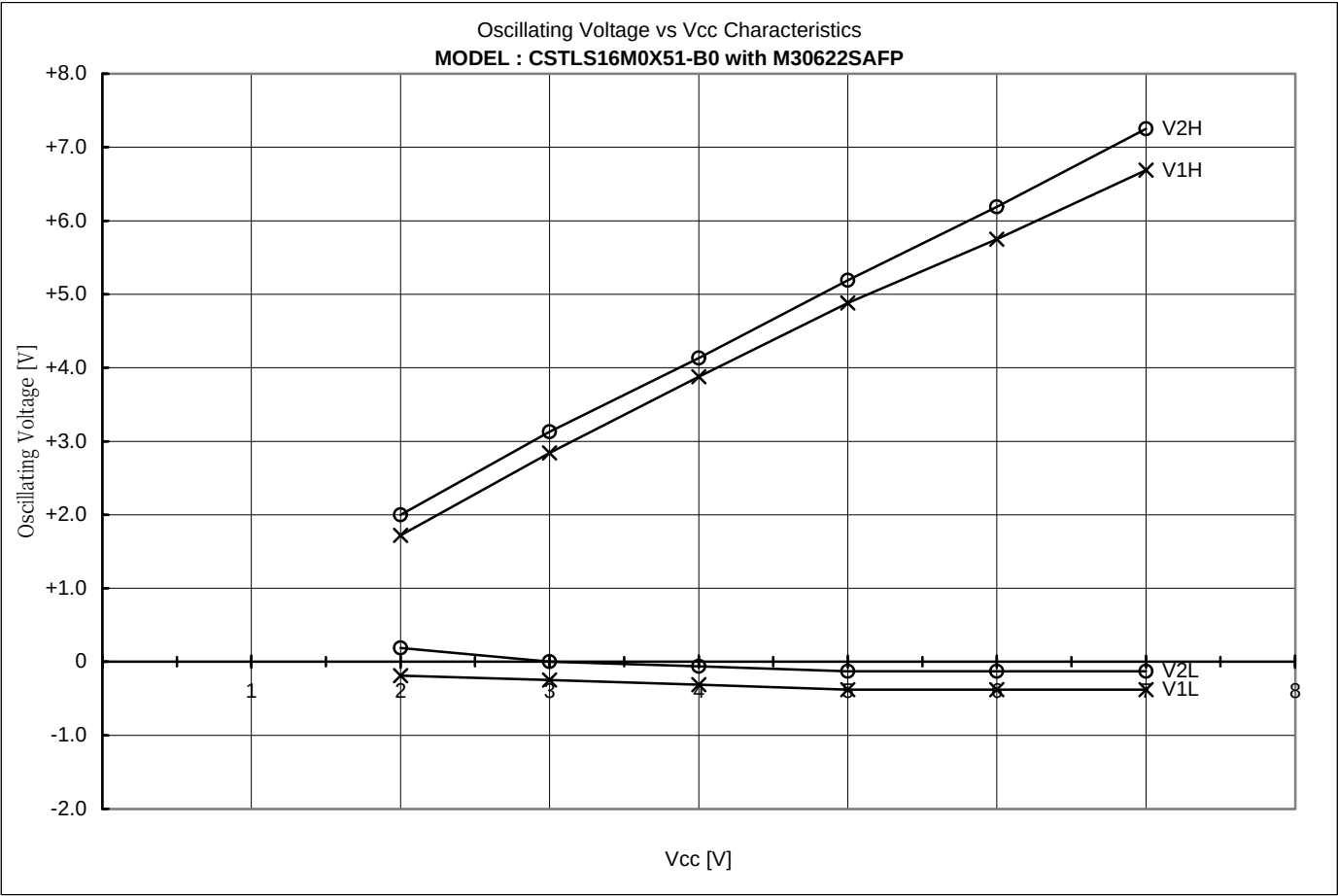
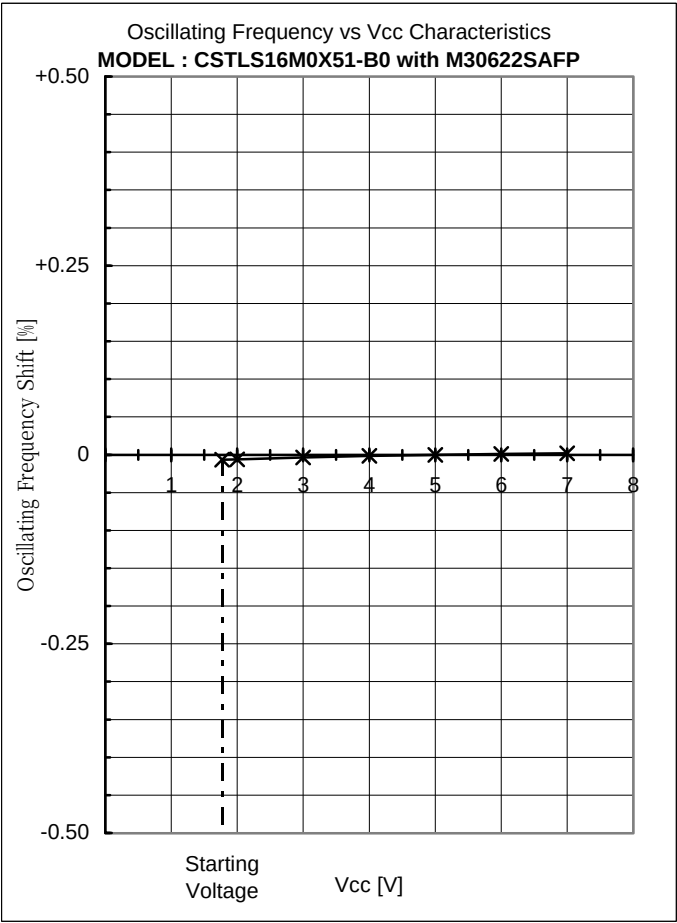
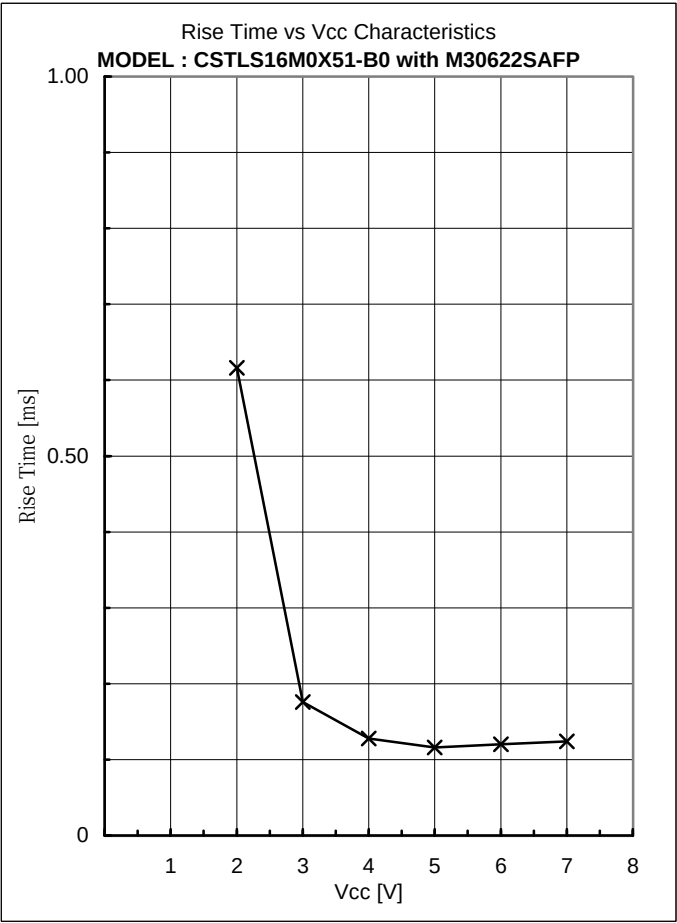
Vcc = 2.5 to 6.5 [V]

C1 = 5 [pF] (Typ.)

C2 = 5 [pF] (Typ.)

Ta = -40 to 125 [°C]





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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]
1	4.81	-0.38	5.19	5.19	-0.13	5.32	16033.457	0.116	1.77
2	4.81	-0.38	5.19	5.19	-0.13	5.32	16033.387	0.123	1.77
3	4.88	-0.38	5.26	5.16	-0.13	5.29	16033.723	0.123	1.78
4	4.88	-0.38	5.26	5.19	-0.13	5.32	16033.504	0.120	1.76
5	4.88	-0.38	5.26	5.16	-0.13	5.29	16033.877	0.109	1.75

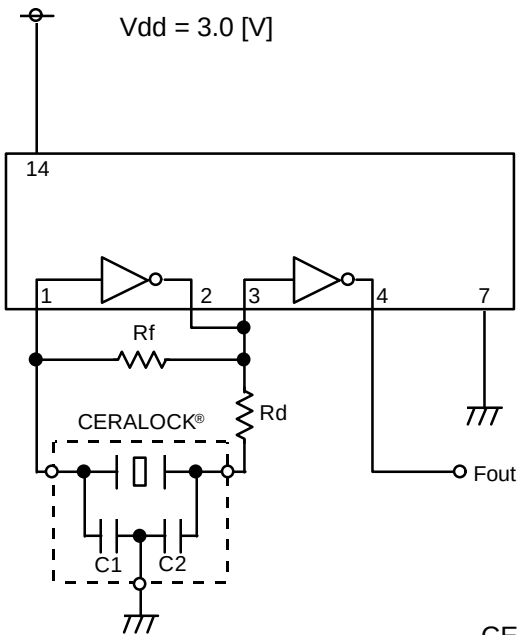
Ref.

Performance described page 2 to 3 were measured with IC No. 1

Frequency Correlation Data

Sample No.	M30622SAFP Fosc [kHz]	TC74HCU04 Fosc [kHz]	Shift [%]
1	16033.511	16036.704	-0.0199
2	16032.802	16035.185	-0.0149
3	16037.353	16040.122	-0.0173
4	16046.573	16049.097	-0.0157
5	16035.077	16037.697	-0.0163
$\bar{X}$	16037.063	16039.761	-0.0168

muRata Standard Circuit



CERALOCK® : CSTLS16M0X51-B0

C1 = 5 [pF]

C2 = 5 [pF]

Rf = 1 [Mohm]

Rd = 470 [ohm]