

Technical Data of Ceramic Resonator

MURATA Part No.: CSTCE12M0G55-R0

Applied to HD64F2345

Note: Suffix indicates packaging style.

·Lead type

-A0 : Flat pack package(Ho=18mm)

-B0 : Bulk

·SMD type

-R0 : Plastic tape package( $\varnothing$ =180mm)





-B0 : Bulk

**TOYAMA MURATA MANUFACTURING CO., LTD.**

Product Engineering Service Section I

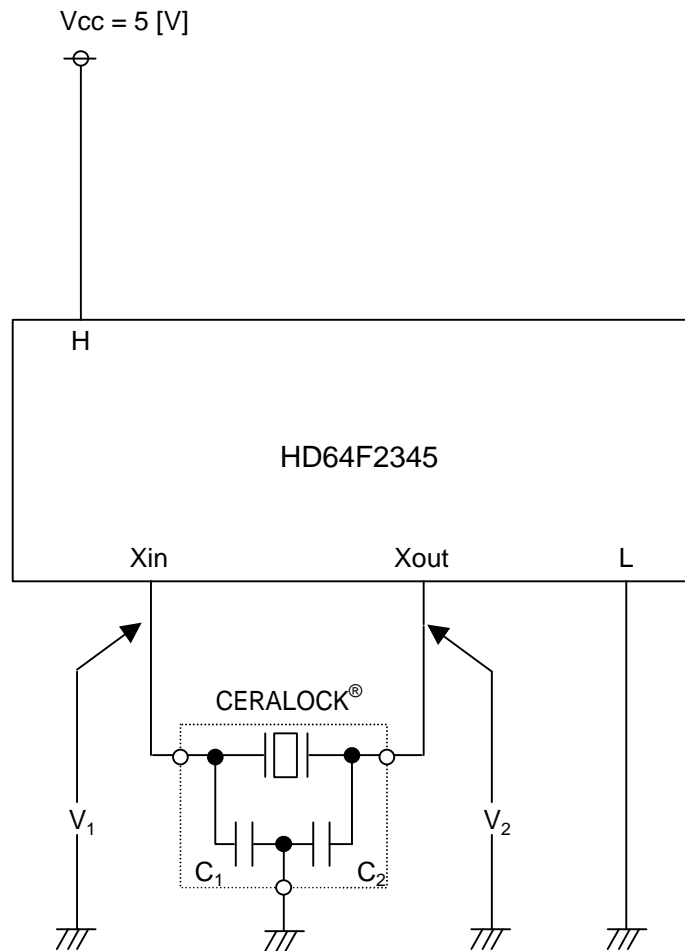
Planning Department

Piezoelectric Components Group

Approved by	Checked by	Checked by	Issued by	Issued Date	Data No.
 K.Terada	 K.Maruno	 K.Masaki	 K.Tagata	Sep 13, 2001	TCD-01-1511



## Test Circuit



Xin : 67

Xout: 66

H : 40,62,64,65,77,98

L : 7,18,31,49,68,87,88

## Recommended Value

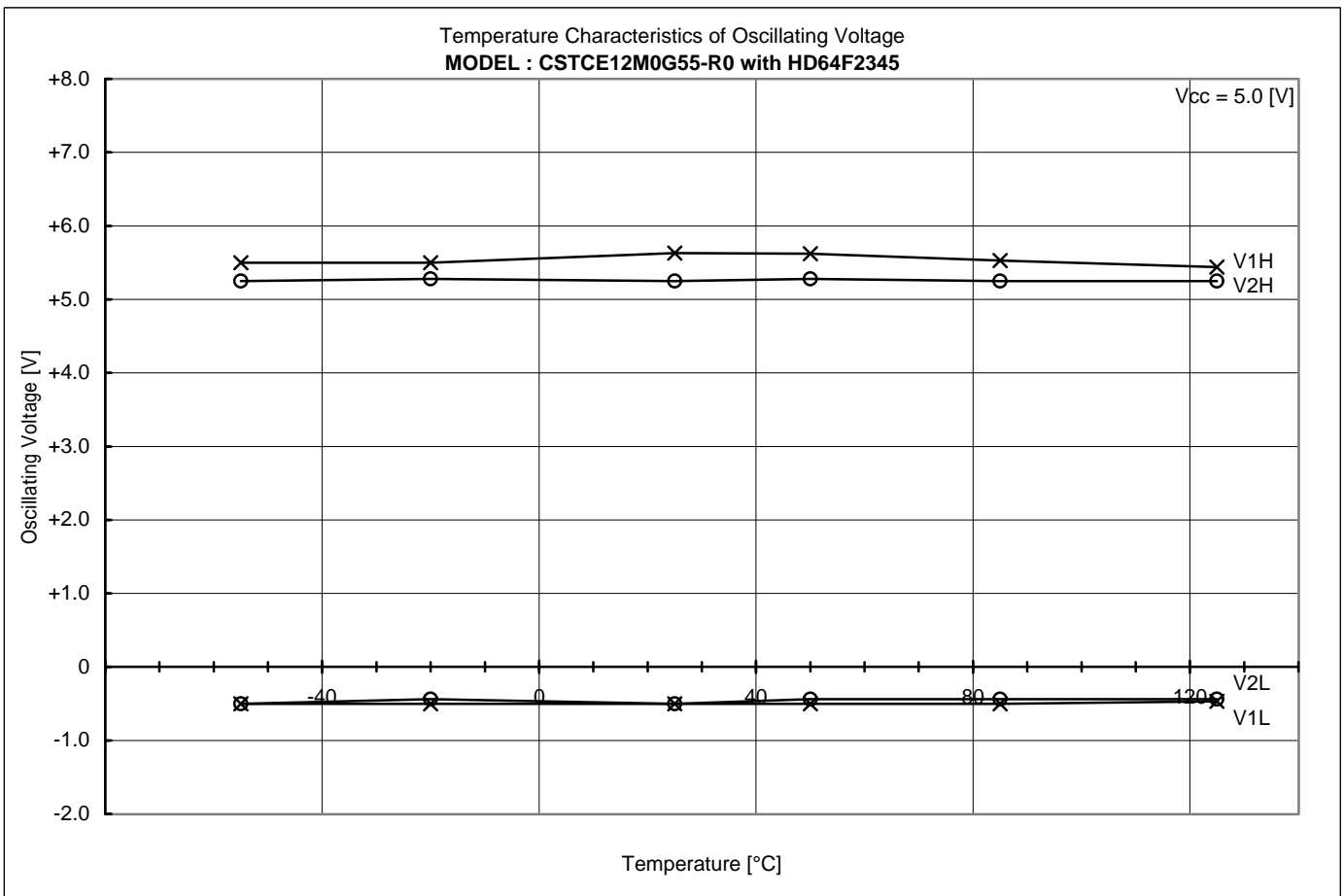
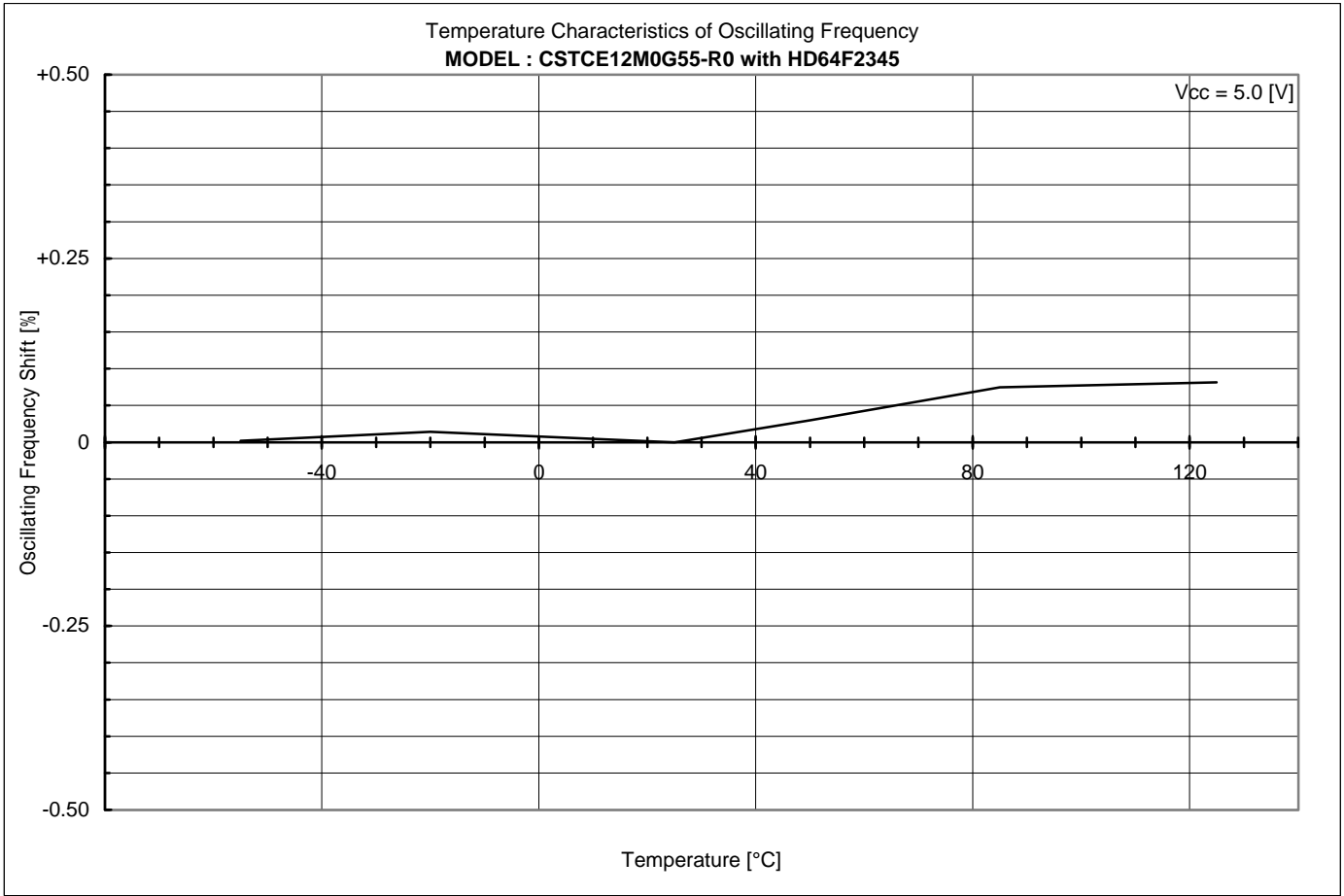
CERALOCK® : CSTCE12M0G55-R0

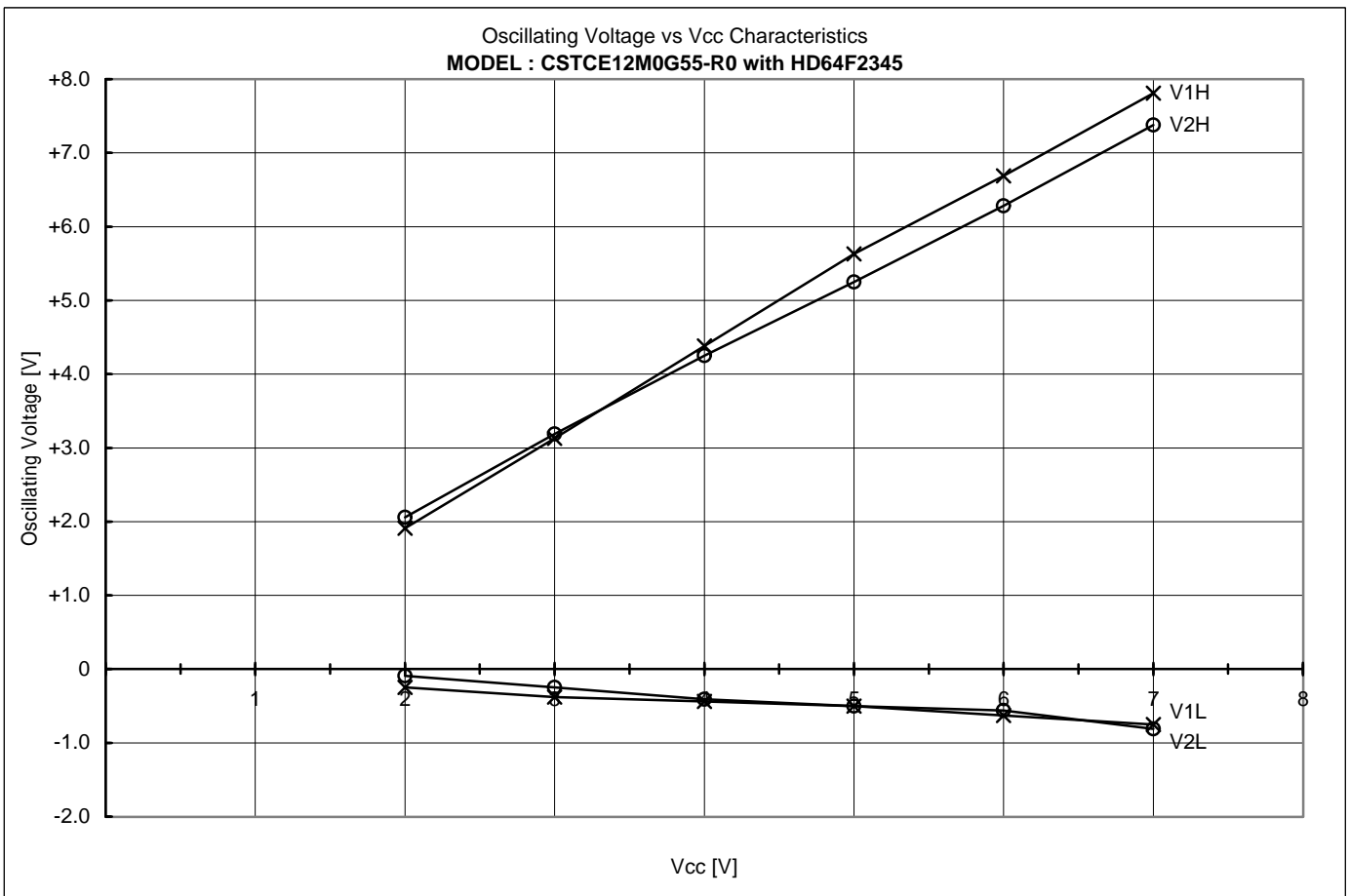
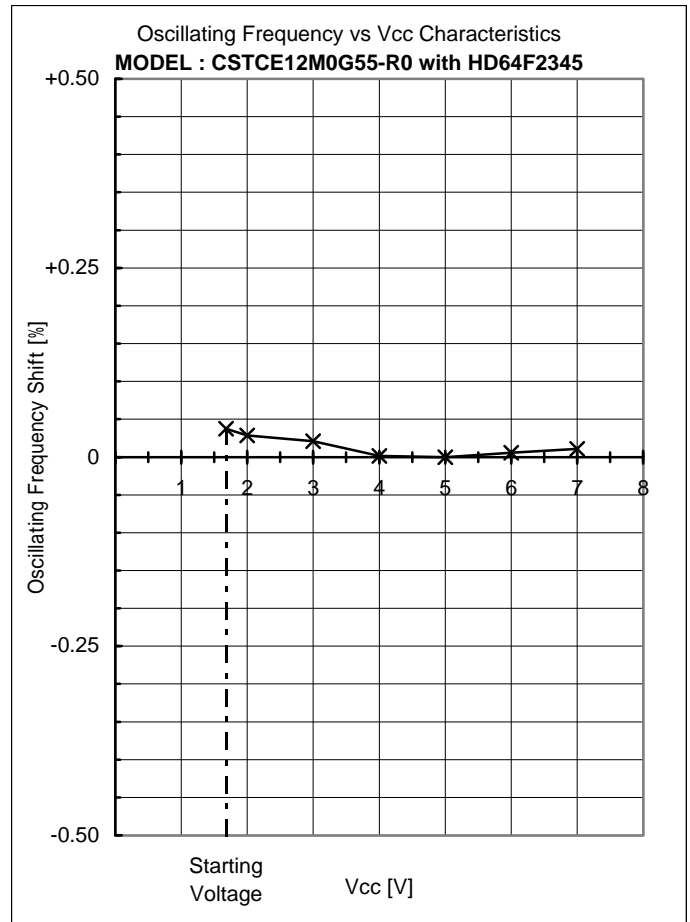
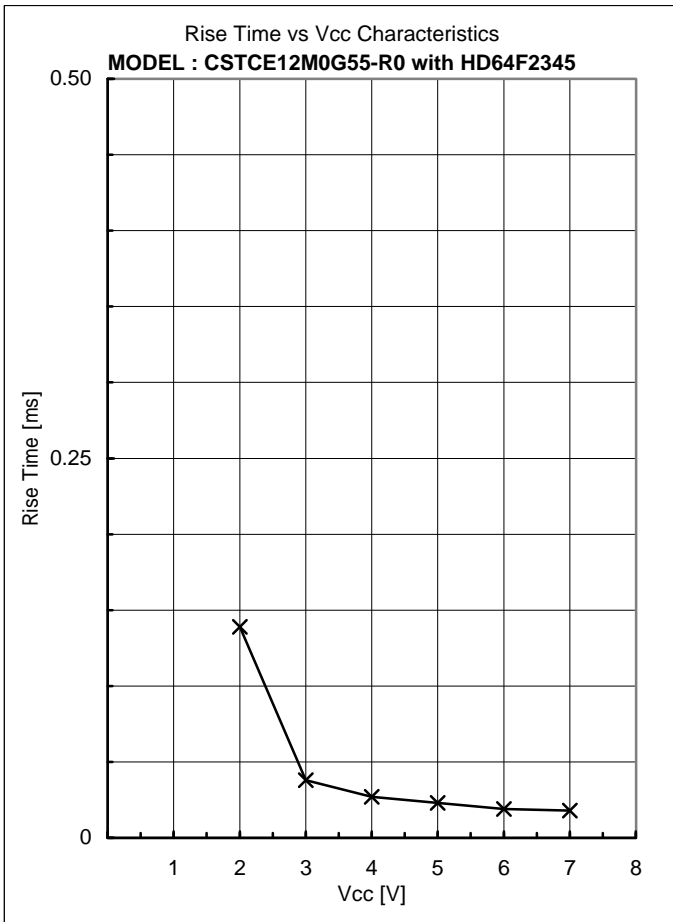
Vcc = 4.5 to 5.5 [V]

C1 = 33 [pF] (Typ.)

C2 = 33 [pF] (Typ.)

Ta = -40 to 85 [°C]







## Appendixes

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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]
15	5.63	-0.50	6.13	5.28	-0.50	5.78	11967.885	0.023	1.68
02	5.56	-0.50	6.06	5.28	-0.50	5.78	11968.486	0.024	1.67
06	5.56	-0.50	6.06	5.31	-0.50	5.81	11967.935	0.022	1.66
10	5.63	-0.50	6.13	5.25	-0.53	5.78	11968.015	0.022	1.69

Ref.

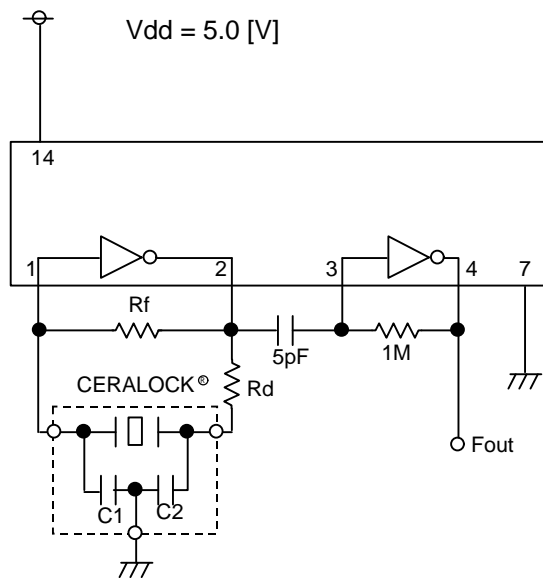
Performance described page 2 to 3 were measured with IC No. 15



### Frequency Correlation Data

Sample No.	HD64F2345 Fosc [kHz]	TC74HCU04AP Fosc [kHz]	Shift [%]
1	11967.960	11999.500	-0.2628
2	11965.557	11997.800	-0.2687
3	11970.781	11997.100	-0.2194
4	11966.850	11998.000	-0.2596
5	11968.968	11999.200	-0.2520
$\bar{X}$	11968.023	11998.320	-0.2525

### muRata Standard Circuit



CERALOCK® : CSTCE12M0G55-R0

C1 = 33 [pF]

C2 = 33 [pF]

Rf = 1 [Mohm]

Rd = 330 [ohm]