

SAMSUNG

OPERATION TEST REPORT ON TDK CERAMIC RESONATOR

(FCR8.0MC5)

IC S3F84BBXZZ (SAMSUNG)

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Sensors & Actuators Division,
TDK CORPORATION

ISSUED BY Chikako Tomizawa

APPROVED	CHECKED	CHECKED
I.Katoh		

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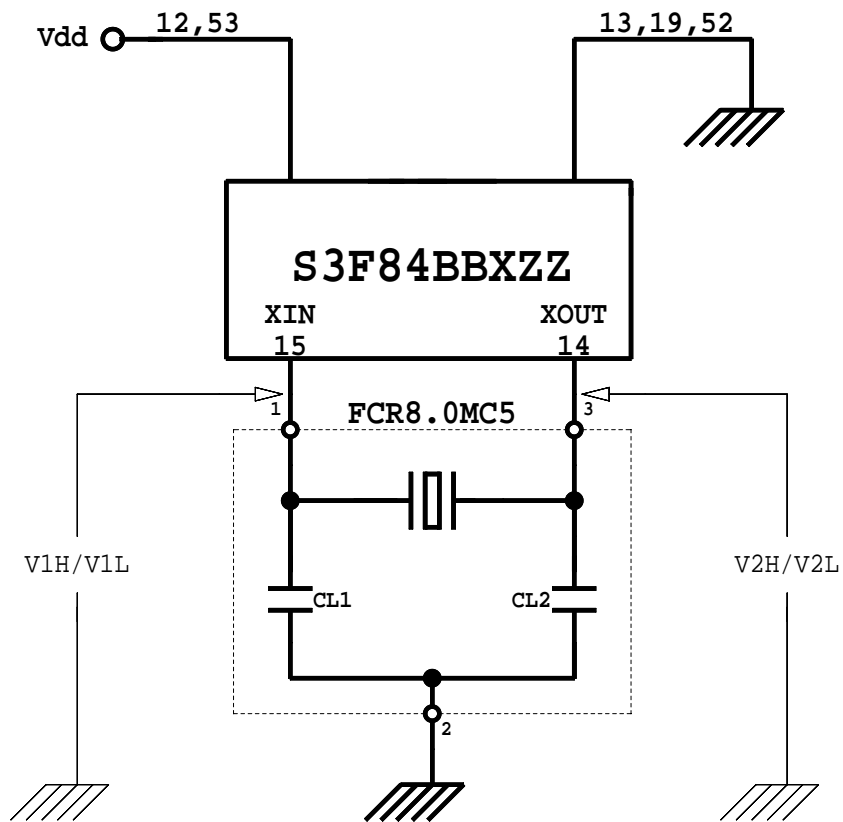
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2.Conclusions

We could confirm the operation satisfactory under
the following test conditions.

Test Conditions

IC	:	S3F84BBXZZ (SAMSUNG)
Ceramic Resonator	:	FCR8.0MC5 (Typical and worst sample are tested)
Power Supply Voltage	:	2.7(V) ~ 5.5(V)
Temperature Range	:	-25(°C) ~ 85(°C)

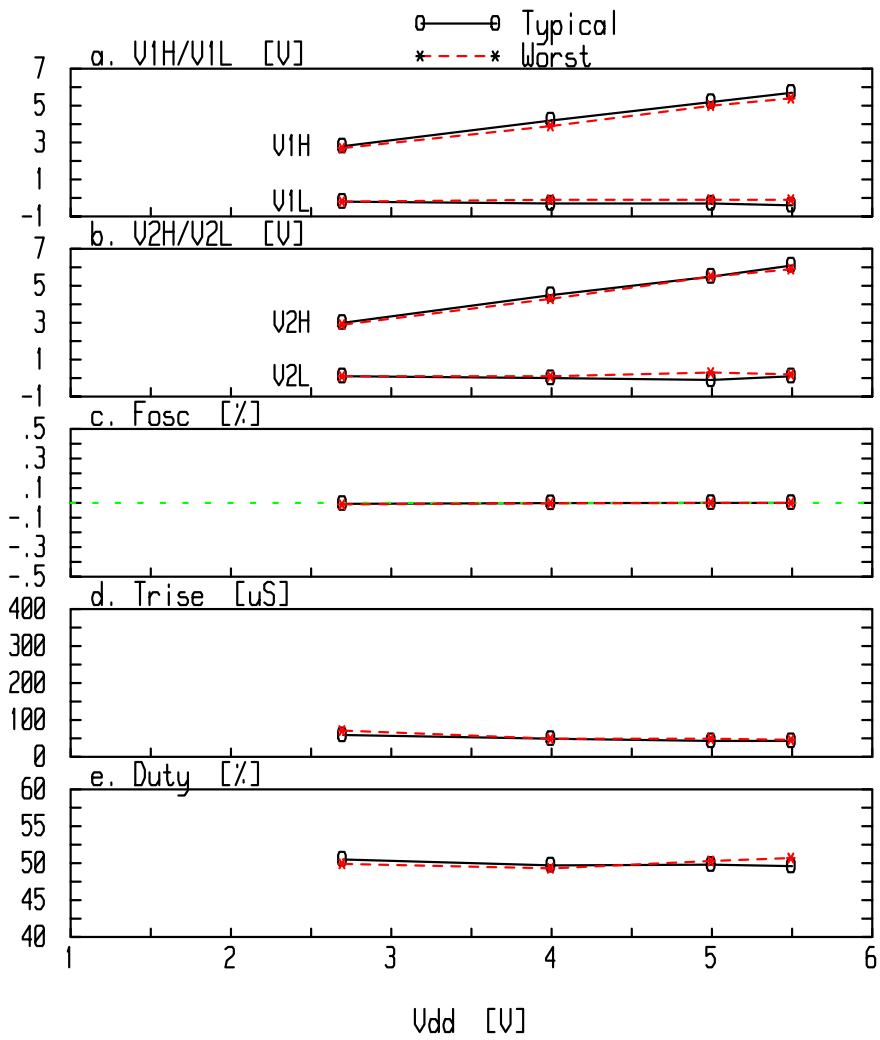


*BUILT-IN LOADING CAPACITOR
 CL1/CL2=20/20pF +/-20%

Oscillating circuit for evaluation

S3F84BBXZZ - 1

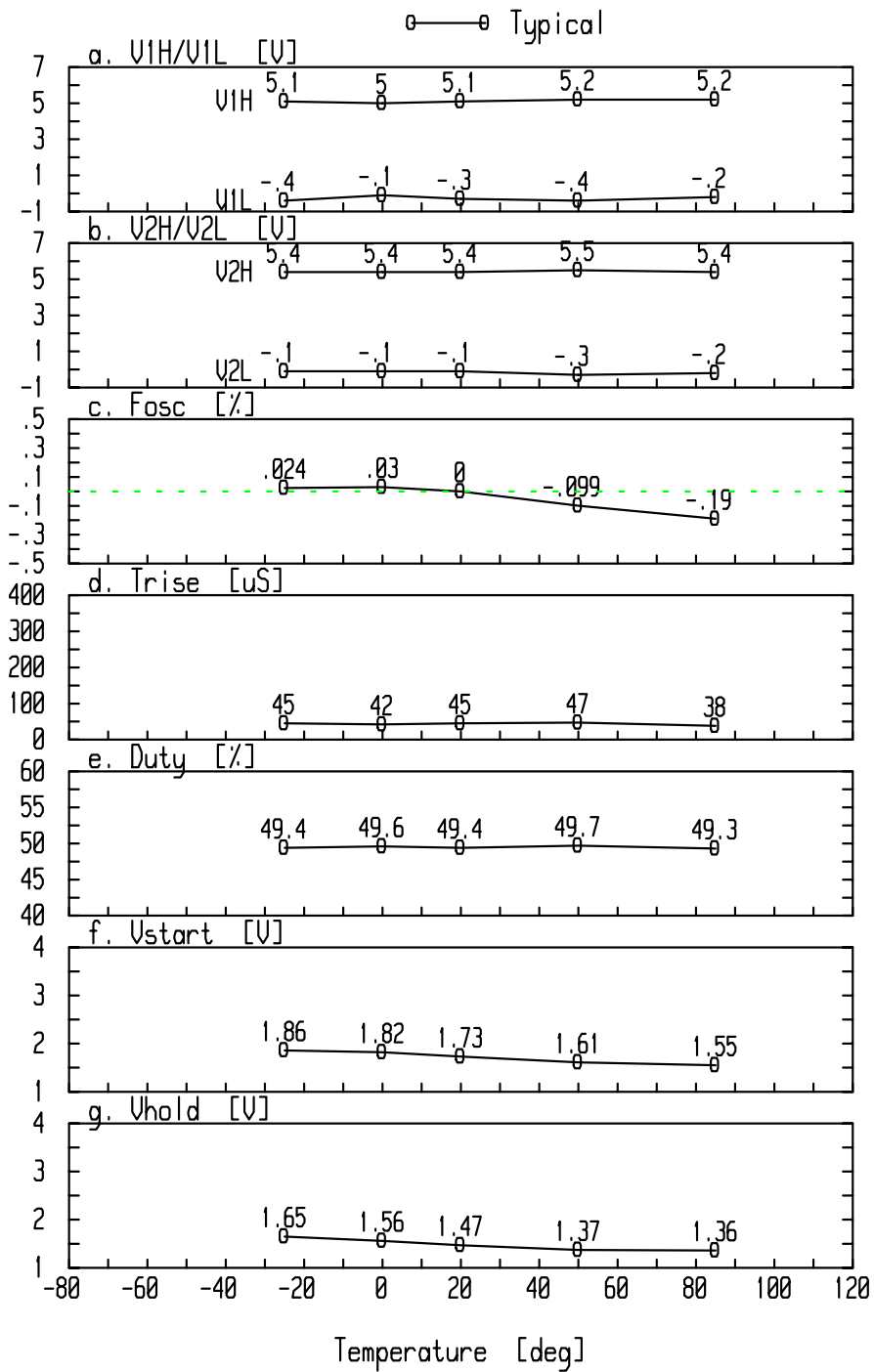
FCR8.0MC5
Ta= 20 [deg]



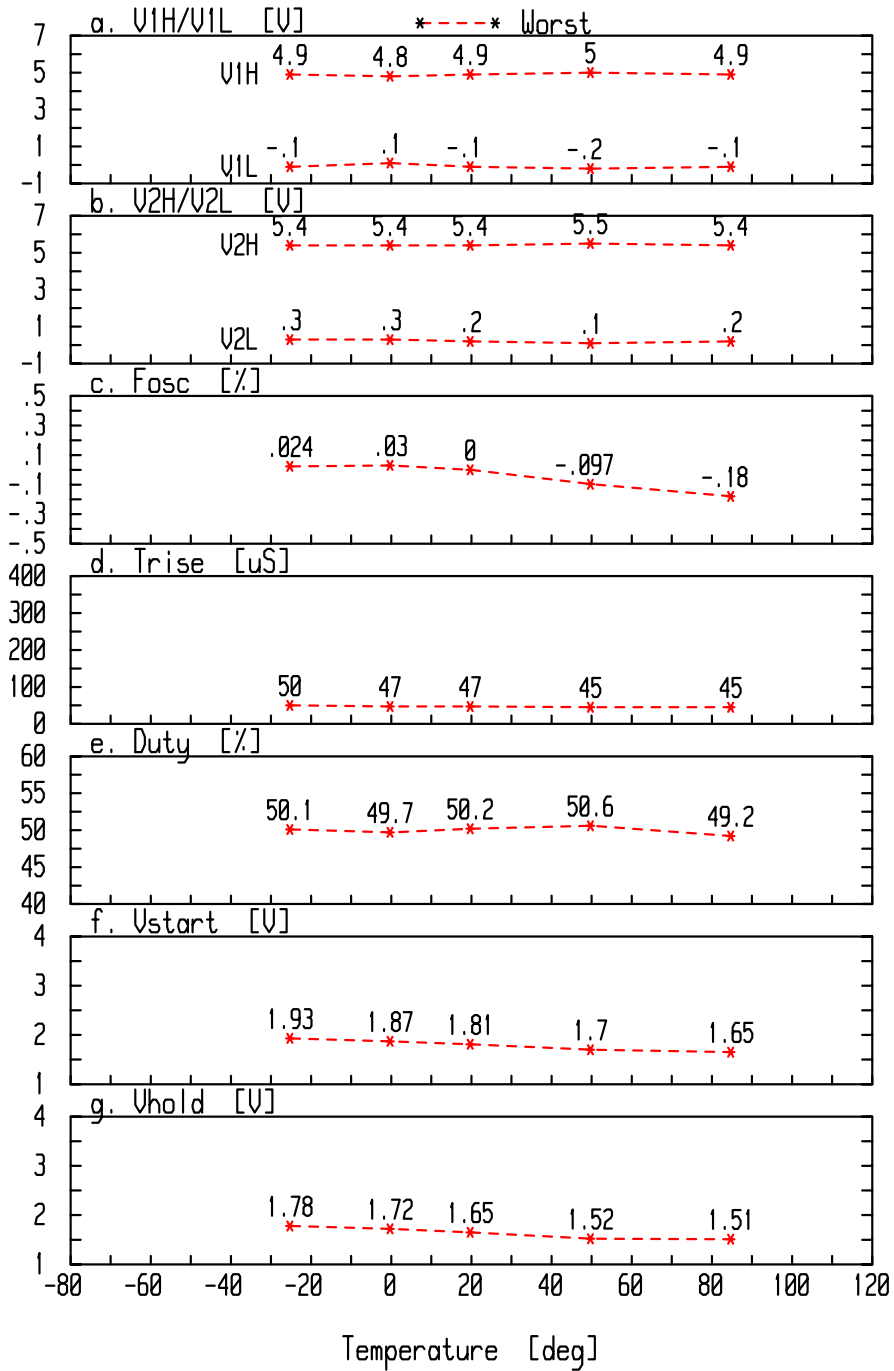
f. V_{start} [V]
Typical = 1.72
Worst = 1.79

g. V_{hold} [V]
Typical = 1.47
Worst = 1.63

Power supply voltage dependence of oscillating characteristics



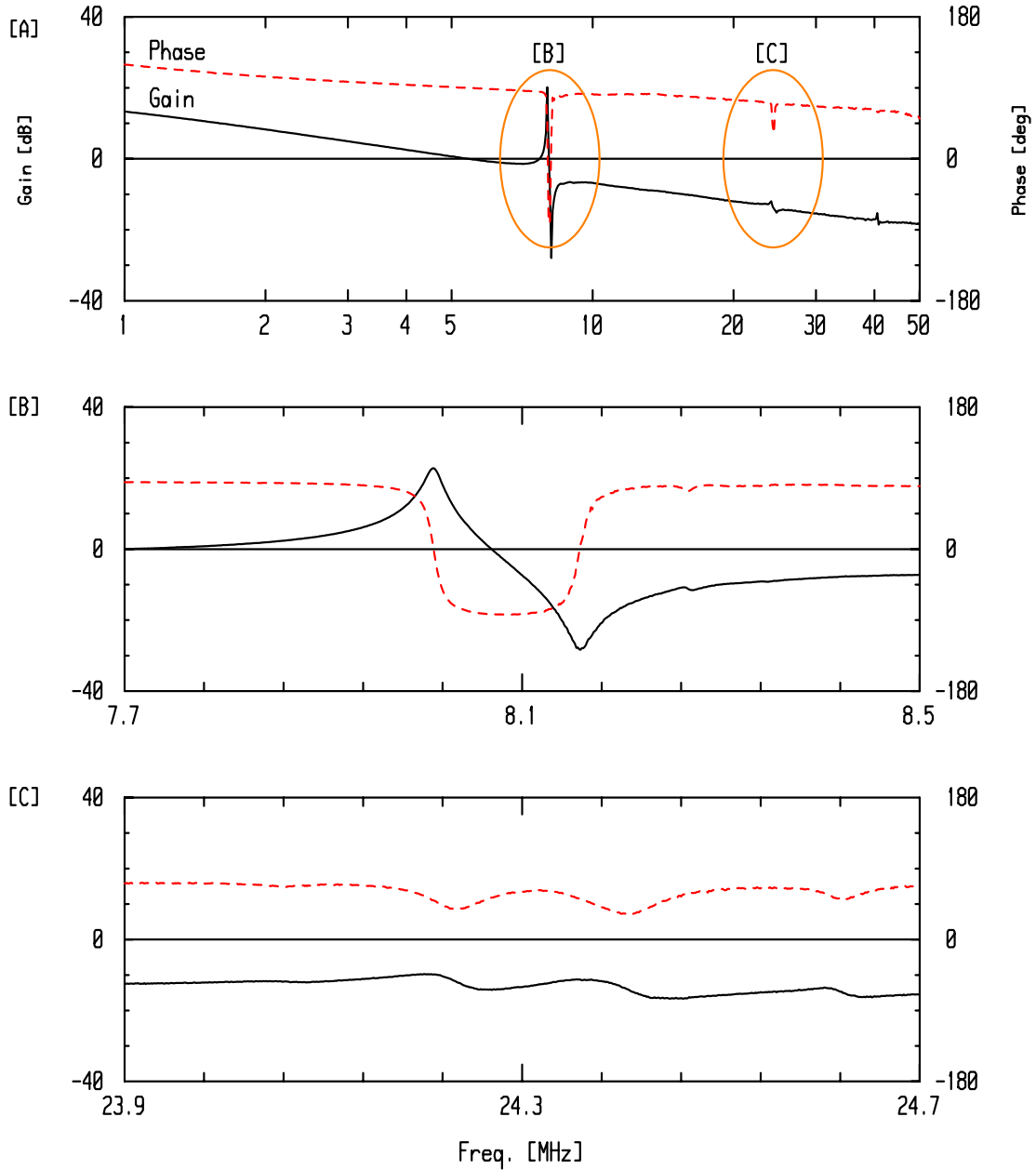
Temperature dependence of oscillating characteristics



Temperature dependence of oscillating characteristics

S3F84BBXZZ - 1
 FCR8.0MC5 - Typical
 Vdd [V] 5

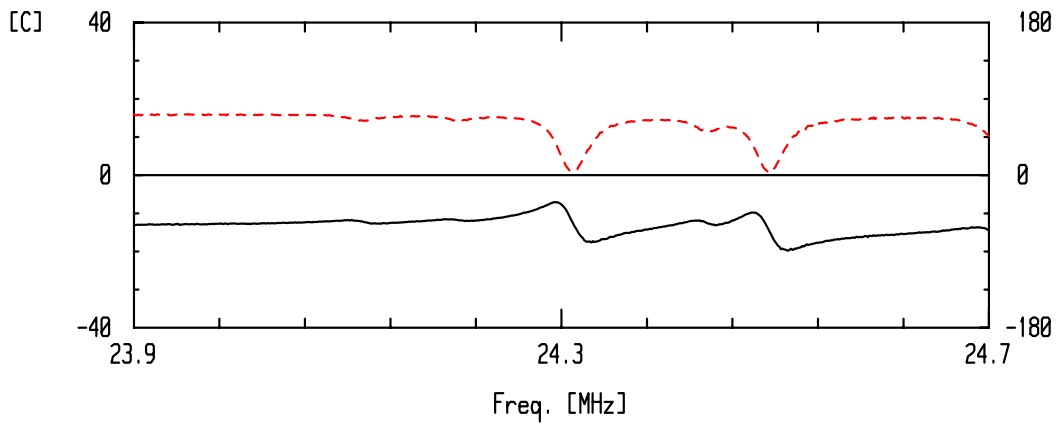
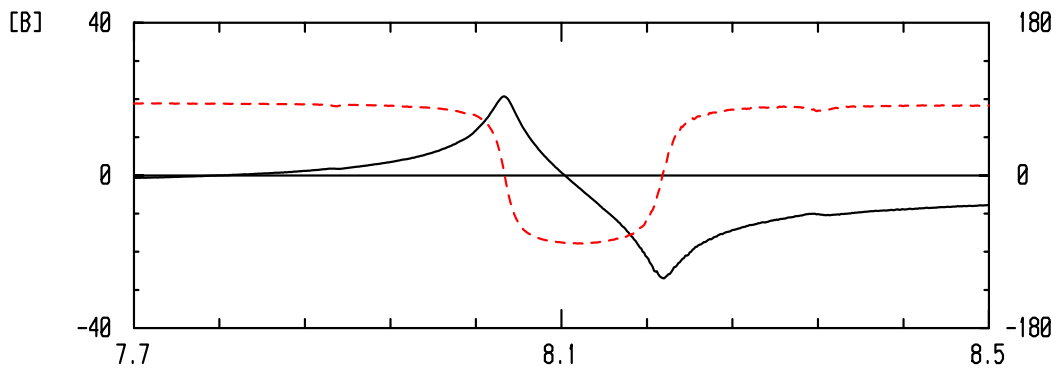
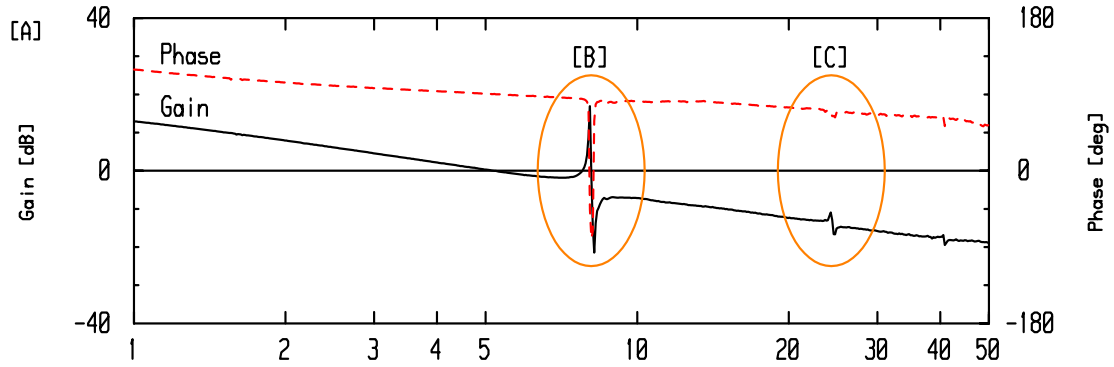
	[B]	[C]
Gmax [dB]	22.82	-9.74
LGM [dB]	22.68	0
FLGM [MHz]	8.0117	0
LPM [deg]	-82.57	38.41



Open loop characteristics (Typical Sample)

S3F84BBXZZ - 1
 FCR8.0MC5 - Worst
 Vdd [V] 5

	[B]	[C]
Gmax [dB]	20.72	-7.09
LGM [dB]	20.59	0
FLGM [MHz]	8.0476	0
LPM [deg]	-79.37	14.86



Open loop characteristics (Worst Sample)