



Corp. Automotive Components Gr.

THE NEW VALUE FRONTIER



A KYOCERA GROUP COMPANY

PRQV Series

11st Dec. 2015

KYOCERA Corporation
Automotive Components
Engineering division
Engineering section

京セラ株式会社

1. Series Name

PRQV series

(+125deg.C / automotive/industrial / 3.2 x 1.3 mm)

2. Electrical Characteristics

(key parameters)

PN	Freq	Freq Initial Tolerance	Freq Temp Stability	Resonant Impedance
	(MHz)	(%)	(%)	ohm
PRQV8.00CR5010Y000	8.00	±0.5	±0.5	60
PRQV10.00CR5010Y000	10.00	±0.5	±0.5	60
PRQV12.00CR5010Y000	12.00	±0.5	±0.5	60
PRQV16.00CR5010Y000	16.00	±0.5	±0.5	60
PRQV20.00CR5010Y000	20.00	±0.5	±0.5	60
PRQV8.00CR1510Y00L	8.00	±0.15	±0.1	500
PRQV16.00CR1510Y00L	16.00	±0.15	±0.1	100
PRQV20.00CR1510Y00L	20.00	±0.15	±0.1	100

(other common parameters)

Items	Specifications
Standard Test IC	MC74HCU04 (Freescale)
Withstanding Voltage	100 V D.C. 10 sec max.
Max. Input Signal Voltage	15 Vp-p
Insulation Resistance	100 MΩ min. (at 10 V D.C.)
Operating Temperature Range	-40 to +125°C
Storage Temperature Range	-40 to +125°C
Aging for 10 years on Oscillating Frequency	fosc ±0.05 / ±0.1 % max. (at 25°C from initial value)

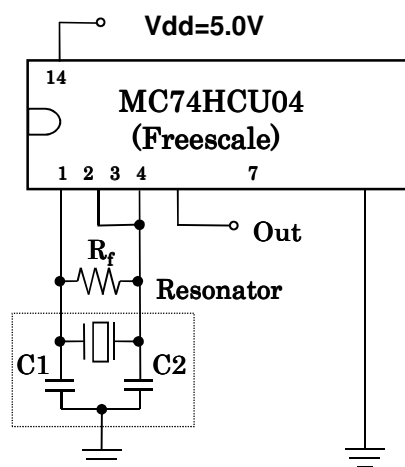
3-1. Measurement Condition

The reference temperature shall be 25 ± 2 °C.

The measurement shall be performed in the temperature range from 15 to 35°C unless otherwise the result is doubtful.

3-2. Measurement Circuit

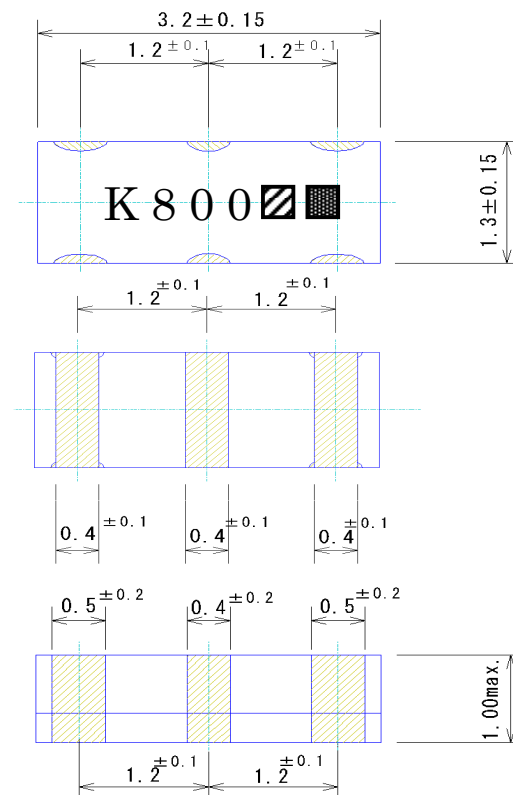
Oscillating frequency shall be measured using the Kyocera standard test circuit shown in Fig. 1.



$R_f = 1M\Omega$
 $C1 = C2 = 10$ pF (Reference)

Fig.1 Standard Measuring Circuits

4. Dimensions



Unit: mm

Terminal: Ni/Sn plating

Oscillating Frequency

e.g.:800 show the oscillating frequency of 8.00 MHz.

Date Code

2013	Jan.	~	Dec.	A~M (except "I")
2014	Jan.	~	Dec.	N~Z (except "O")
2015	Jan.	~	Dec.	a~m (except "i")
2016	Jan.	~	Dec.	n~z (except "o")

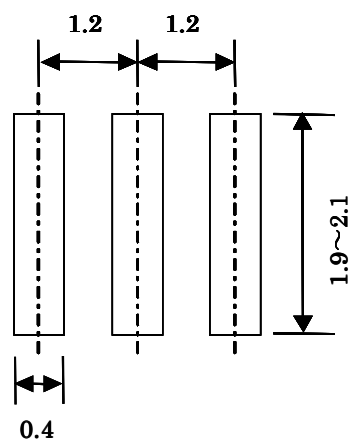
Note: The alphabet should be repeated after Jan.2017.

Day Code

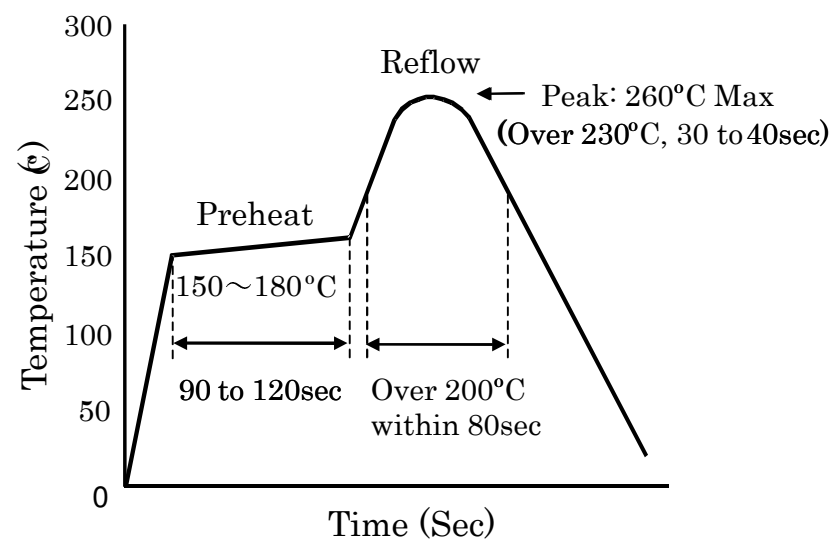
Day	1	2	3	4	5	6	7	8	9	10
Code	A	B	C	D	E	F	G	H	J	K
Day	11	12	13	14	15	16	17	18	19	20
Code	L	M	N	P	Q	R	S	T	U	V
Day	21	22	23	24	25	26	27	28	29	30
Code	W	X	Y	Z	a	b	c	d	e	f

5. Recommended Land Pattern

Unit: mm



6. Recommended IR Reflow Profile



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