KYOCERA
Corp. Automotive Components Gr.

THE NEW VALUE FRONTIER

AVX
A KYOCERA GROUP COMPANY

PRQC Series

11st Dec. 2015

KYOCERA Corporation
Automotive Components
Engineering division
Engineering section

京セラ株式会社

1.Series Name

PRQC series
(+85deg.C / consumer/industrial / 3.2 x 1.3 mm)

2. Electrical Characteristics

(key parameters)

PN	Freq	Freq Initial Tolerance	Freq Temp Stability	Resonant Impedance	
	(MHz)	(%)	(%)	ohm	
PRQC8.00CR5010X000	8.00	±0.5	±0.5	60	
PRQC10.00CR5010X000	10.00	±0.5	±0.5	60	
PRQC12.00CR5010X000	12.00	±0.5	±0.5	60	
PRQC16.00CR5010X000	16.00	±0.5	±0.5	60	
PRQC20.00CR5010X000	20.00	±0.5	±0.5	60	
PRQC8.00CR1010V00L	8.00	±0.1	±0.02	500	
PRQC12.00CR1010V00L	12.00	±0.1	±0.02	200	※
PRQC16.00CR1010V00L	16.00	±0.1	±0.02	100	※
PRQC20.00CR1010V00L	20.00	±0.1	±0.02	100	※

※ +70deg.C

(other common parameters)

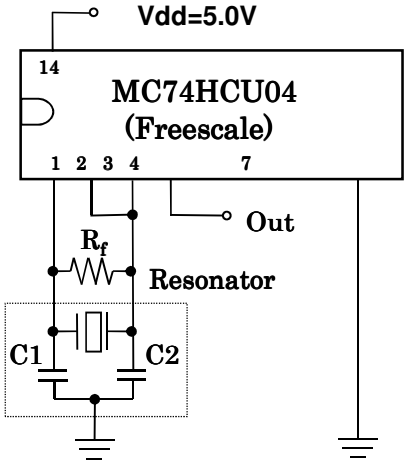
Items	Specifications
Standard Test IC	MC74HCU04 (Freescale)
Withstanding Voltage	100 V D.C. 10 sec max.
Max. Input Signal Voltage	15 Vp-p
Insulation Resistance	100 MΩ min. (at 10 V D.C.)
Operating Temperature Range	-40 to +85℃
Storage Temperature Range	-40 to +85℃
Aging for 10 years on Oscillating Frequency	fosc ±0.1 % max. (at 25℃ from initial value)

3-1. Measurement Condition

The reference temperature shall be 25±2 ℃.
The measurement shall be performed in the temperature range from 15 to 35℃ unless otherwise the result is doubtful.

3-2. Measurement Circuit

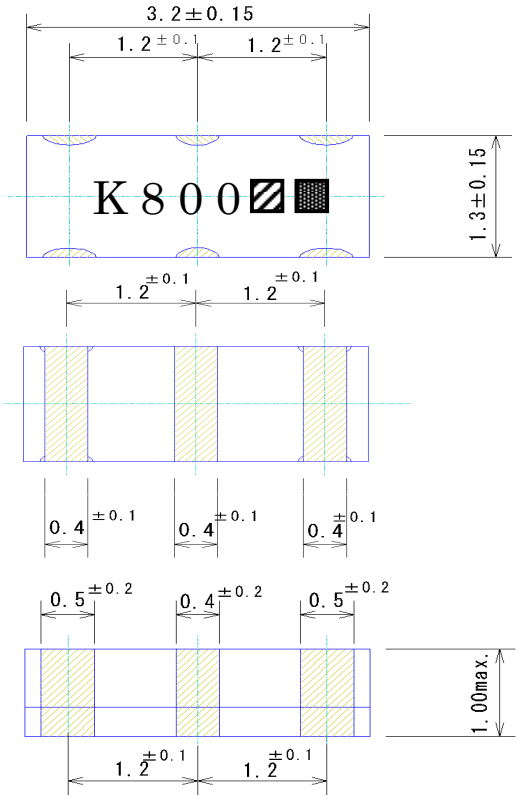
Oscillating frequency shall be measured using the Kyocera standard test circuit shown in Fig. 1.



R_f=1MΩ
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”)

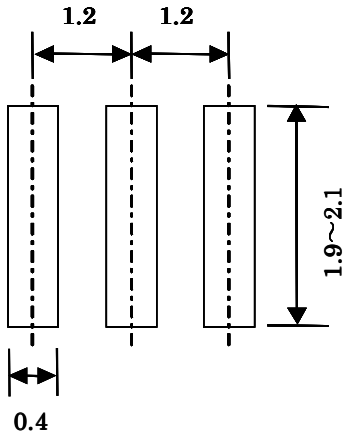
Note: The alphabet should be repeated after Jan.2017.

Day Code

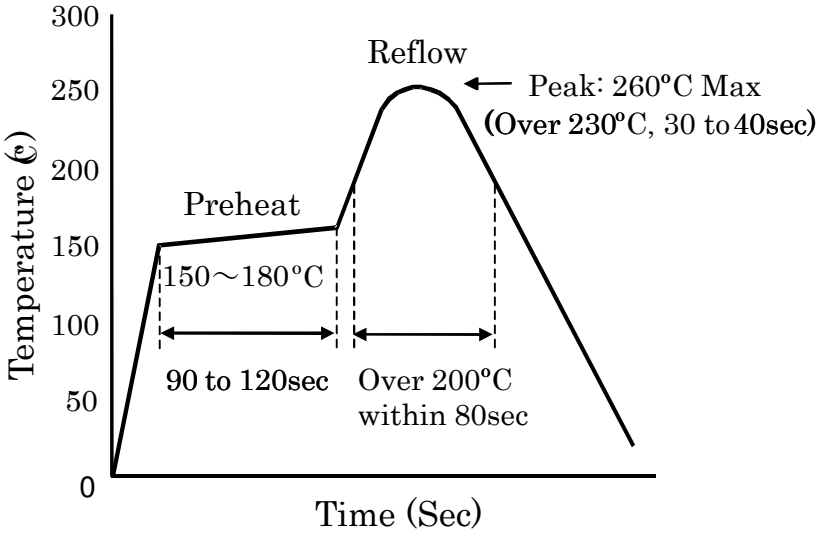
Day	1	2	3	4	5	6	7	8	9	10	
Code	A	B	C	D	E	F	G	H	J	K	
Day	11	12	13	14	15	16	17	18	19	20	
Code	L	M	N	P	Q	R	S	T	U	V	
Day	21	22	23	24	25	26	27	28	29	30	31
Code	W	X	Y	Z	a	b	c	d	e	f	g

5. Recommended Land Pattern

Unit: mm



6. Recommended IR Reflow Profile



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kyocera:

PBRV-10.00HR-Y PBRC-4.00HR03 PBRC-3.58AR PBRC-6.00AR PBRC-20.00GR PBRC-2.00AR PBRC-8.00AR PBRC-4.19AR PBRC-6.96AR PBRV-4.00HR-Y PBRC-16.00BR07 PARM433.92K04R PBRC-11.0592BR PBRC-16.00BR PBRC-3.58GR PBRC4.00MR50X000 PBRC-4.19HR PBRC-5.00HR PBRC-6.00BR-AL PBRC-6.00HR PBRC6.00MR50X000 PBRC-7.37GR PBRC-7.37HR PBRV-12.00HRY PBRC10.00HR70X000 PBRC12.00HR70X000 PBRC2.45HR50X000 PBRC3.68HR50X000 PBRC20.00MR70X000 PBRC5.00HR50X000 PBRC16.00HR70X000 PBRC4.19HR50X000 PBRC7.37HR50X000 PBRC4.91HR50X000 PBRC5.00MR50X000 PBRC4.91MR50X000 PBRC-11.06BR07 PBRC-20.00BR07 PBRV-20.00HR-Y PBRC-12.00HR KBR-3.58MKS PBRC-2.00BR PBRC-2.45BR PBRC-3.58BR PBRC-3.68BR PBRC-4.19BR PBRC-6.00BR PBRC-8.00BR PBRC-10.00BR07 PBRC-12.00BR07 PBRC-20.00BR PBRC-4.91BR PBRC-7.00AR PBRC-4.00AR PBRC-5.00AR PBRC-4.91AR PBRC-4.91HR PBRC-10.00HR PBRC-4.00BR-AL PBRC-2.45AR PBRC-7.37AR PBRC-8.00BR-AL PBRC-3.68AR PBRC4.19GR50X000 PBRC20.00HR50X000 PBRC10.00HR50X0RZ PBRC2.46HR50X000 PBRC3.68GR50X000 PBRC4.00GR50X000 PBRV5.00HR50Y000 PBRV6.00HR50Y000 PBRV6.00MR50Y000 PBRV8.00MR50Y000 PBRV4.19HR50Y000 PBRC8.00GR50X000 PBRV4.91HR50Y000 PBRV4.19MR50Y000 PBRV16.00HR50Z000 PBRV2.00HR50Y000 PBRV4.00HR50Y000 PBRV16.00HR50X0D6 PARS-433.92K04R-X KBR-4.00MKDTR KBR-4.00MKS KBR-4.00MSA PBRC4.00HR50X000 PBRC14.74HR70X000 PBRC7.00HR50X000 PBRC6.96HR50X000 PBRC4.19MR50X000 PBRC8.00MR50X000 PBRC11.06HR70X000 PBRC11.06MR70X000 PBRC8.00HR50X000 PBRC6.00HR50X000 PBRC20.00HR70X000 PBRC3.58HR50X000 PBRC16.00MR70X000 PBRC7.37MR50X000 PBRC10.00MR70X000