



Corp. Automotive Components Gr.

THE NEW VALUE FRONTIER



A KYOCERA GROUP COMPANY

PBRV-HR Series

11st Dec. 2015

KYOCERA Corporation
Automotive Components
Engineering division
Engineering section

京セラ株式会社

1. Series Name

PBRV-HR series

(+125deg.C / automotive/industrial / 7.4 x 3.4 mm)

2. Electrical Characteristics

(key parameters)

PN	Freq	Freq Initial Tolerance	Freq Temp Stability	Resonant Impedance
	(MHz)	(%)	(%)	ohm
PBRV2.00HR50Y000	2.00	±0.5	±0.3	200
PBRV3.00HR50Y000	3.00	±0.5	±0.3	200
PBRV3.40HR30Y000	3.40	±0.5	±0.3	100
PBRV3.58HR50Y000	3.58	±0.5	±0.3	30
PBRV4.00HR50Y000	4.00	±0.5	±0.3	30
PBRV4.19HR50Y000	4.19	±0.5	±0.3	30
PBRV4.91HR50Y000	4.91	±0.5	±0.3	30
PBRV6.25HR50Y000	6.25	±0.5	±0.3	30
PBRV8.00HR50Y000	8.00	±0.5	±0.3	30
PBRV10.00HR50Y000	10.00	±0.5	±0.1	150

PN	Freq	Freq Initial Tolerance	Freq Temp Stability	Resonant Impedance
	(MHz)	(%)	(%)	ohm
PBRV12.00HR50Y000	12.00	±0.5	±0.1	150
PBRV16.00HR50Y000	16.00	±0.5	±0.1	150
PBRV20.00HR50Y000	20.00	±0.5	±0.1	150

(other common parameters)

Items	Specifications
Standard Test IC	MC14069UB(2.0-8.0MHz) / MC74HCU04(8.01-20.0mHz) (Freescale)
Withstanding Voltage	100 V D.C. 10 sec max.
Max. Input Signal Voltage	15 Vp-p
Insulation Resistance	100 M Ω 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 $\pm$ 0.30 % 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.

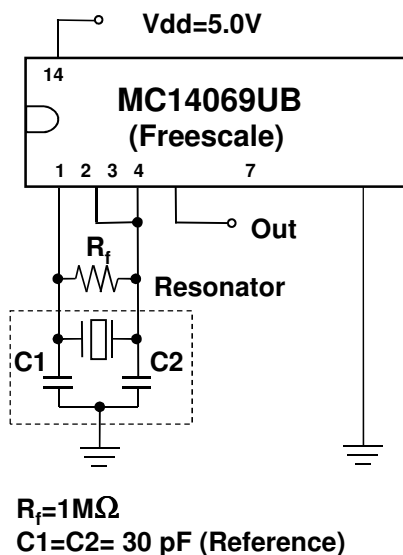
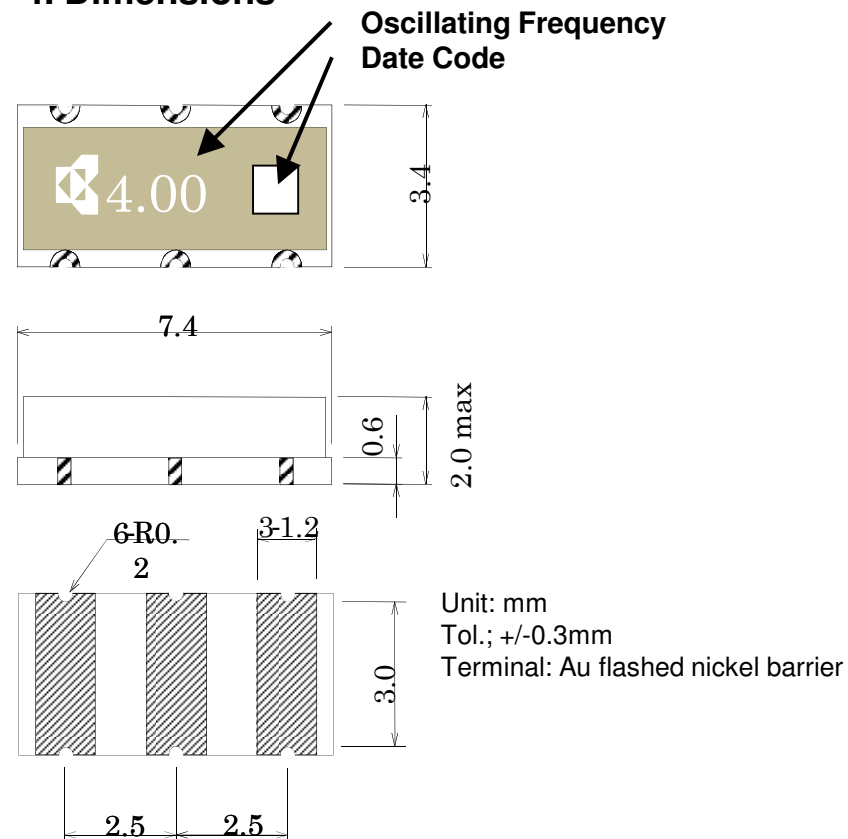


Fig.1 Standard Measuring Circuits

4. Dimensions



Oscillating Frequency

ex.4.00 (4.00 is the meaning of 4.00MHz/Oscillating Frequency)

Date Code

Jan. to Dec. 2013: A to M (except "I")

Jan. to Dec. 2014: N to Z (except "O")

Jan. to Dec. 2015: a to m (except "i")

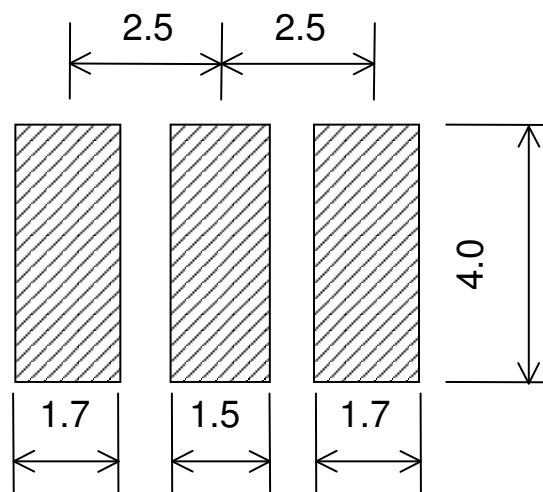
Jan. to Dec. 2016: n to z (except "o")

Note:

These alphabets should be after Jan.2017.

5. Recommended Land Pattern

Unit: mm



6. Recommended IR Reflow Profile

