

MHz Band Ceramic Chip Resonators (SMD) PBRC-H/ PBRC-M/ PRQC Series



for Consumer Applications



RoHS Compliant

Features

- High reliability, high temperature withstanding package
- Rectangular shape allows easy pick and placement
- Small & low profile
- Reflow solderable
- Excellent solderability (Nickel barrier+Au flash terminations)

How to Order (PBRC-H, PBRC-M)

PBRC 15.00 H R 50 X 000
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Series
- ② Frequency (MHz)
- ③ Type (H, M)
- ④ Packing _Bulk (Null)
R Reel (H: 2k/ reel, M: 3k/ reel)
- ⑤ Frequency Tolerance at 25°C

10	±0.1%	20	±0.2%
30	±0.3%	40	±0.4%
50	±0.5%	70	±0.7%

- ⑥ Operating Temperature

X -40°C to 85°C

- ⑦ Unique Code

How to Order (PRQC)

PRQC 8.00 S R 50 10 X 000
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Series
- ② Frequency (MHz)
- ③ Type (S)
- ④ Packing _Bulk (Null)
R Reel (3k/ reel)
- ⑤ Frequency Tolerance at 25°C

10	±0.1%	20	±0.2%
30	±0.3%	40	±0.4%
50	±0.5%	70	±0.7%

- ⑥ Built-in Capacitance 10pF: 10

- ⑦ Operating Temperature

W -20°C to 80°C **X** -40°C to 85°C

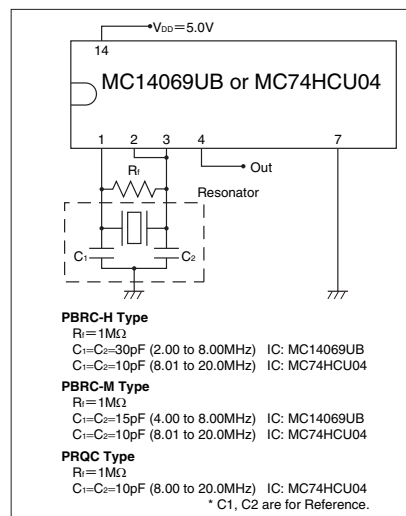
- ⑧ Unique Code

Specifications

Series	Frequency Range (MHz)	Frequency Tolerance (25°C)	Temperature Stability
PBRC-H	2.00 to 8.00	±0.5% (op. ±0.3%)	±0.5% (-40 to 85°C)
	8.01 to 20.0	±0.7% (op. ±0.5%)	±0.1% (-40 to 85°C)
PBRC-M	4.00 to 8.00	±0.5% (op. ±0.3%)	±0.5% (-40 to 85°C)
	8.01 to 20.0	±0.7% (op. ±0.5%)	±0.1% (-40 to 85°C)
PRQC	8.00 to 20.0	±0.5% (op. ±0.3%)	±0.5% (-40 to 85°C)

* Aging for 10 years is within ±0.3% from the initial frequency at 25°C.

Test Circuit

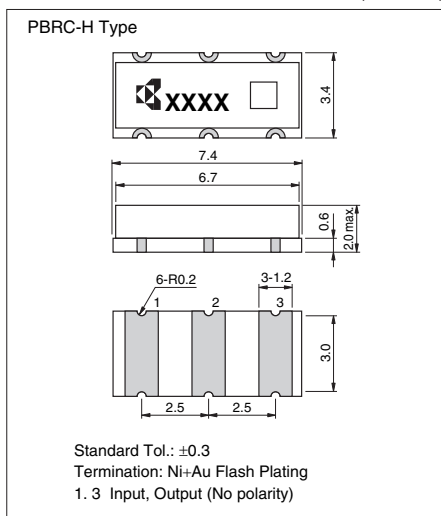


Note)

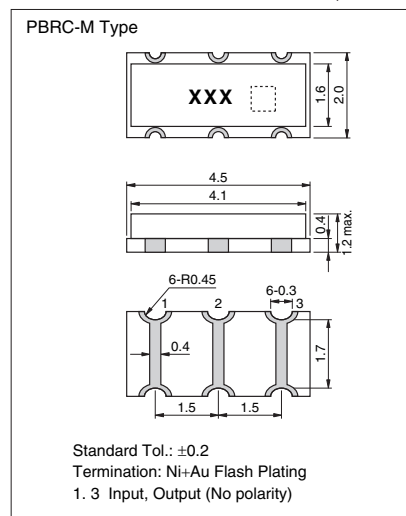
- This product includes built-in capacitors, but values may not be the most appropriate depending on IC's.
- Evaluation of circuit with IC is necessary. IC circuit matching may be referenced with
 - 1) IC data books
 - 2) List of Recommended circuits in Kyocera website.
- Please contact IC manufacturer or Kyocera when there are difficulties in finding recommended circuits.

Dimensions

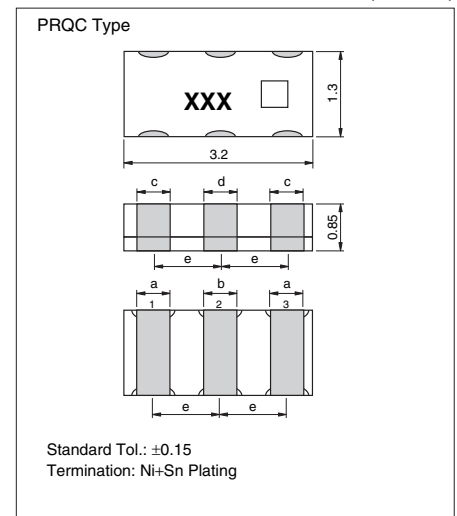
(Unit: mm)



(Unit: mm)



(Unit: mm)



#	Pin #
1	Input
2	Ground
3	Output

(Unit: mm)

Frequency (MHz)	a	b	c	d	e
8.00 to 12.50	0.4	0.4	0.6	0.4	1.2
12.51 to 20.00	0.6	0.4	0.6	0.4	0.95