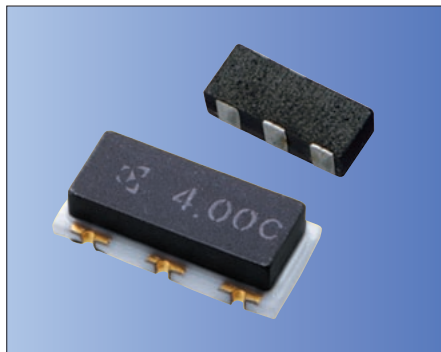


MHz Band Ceramic Chip Resonators (SMD) PBRV-H/ PBRV-M/ PRQV Series



for Automotive Applications



RoHS Compliant

Features

- Miniature & low profile
- Rectangular shape allows easy pick and placement
- Component cost and space saving
- High density mounting possible
- Reflow solderable & washable
- High reliability, high temperature operation
- AEC-Q200

Applications

- Automotive
- ABS
- ECU
- Air-Bag System

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

PBRV 15.00 H R 50 Y 000
① ② ③ ④ ⑤ ⑥ ⑦

- ① Series (PBRV: Automotive)
- 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	Y	-40°C to 125°C
Z	-40°C to 150°C		
- ⑦ Unique Code

How to Order (PRQV)

PRQV 8.00 S R 50 10 Y 000
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Series (PRQV: Automotive)
- 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

X	-40°C to 85°C	Y	-40°C to 125°C
Z	-40°C to 150°C		
- ⑧ Unique Code

Specifications

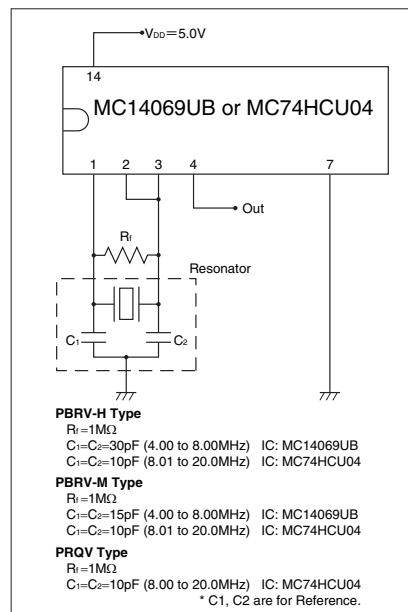
Series	Frequency Range (MHz)	Frequency Tolerance (25°C)	Temperature Stability
PBRV-H PBRV-M	4.00 to 8.00	±0.5% (op. ±0.3%)	Y: ±0.5% (-40 to +125°C) Z: ±0.5% (-40 to +150°C)
	8.01 to 20.00	±0.7% (op. ±0.5%)	Y: ±0.1% (-40 to +125°C) Z: ±0.2% (-40 to +150°C)
PRQV	8.00 to 20.00	±0.5% (op. ±0.3%)	Y: ±0.5% (-40 to +125°C) Z: ±0.5% (-40 to +150°C)

* Aging for 10 years is within ±0.3% from the initial frequency at 25°C.
* Please contact us for products without built-in capacitors.

Note)

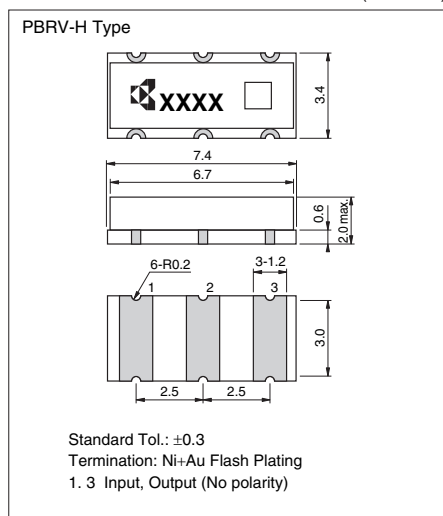
- This product includes built-in capacitors, but values may not be the most appropriate depending on IC's.
- Evaluation of circuit with IC is necessary. IC circuit matching may be referenced with
 - 1) IC data books
 - 2) List of Recommended circuits in Kyocera website.
- Please contact IC manufacturer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

Test Circuit

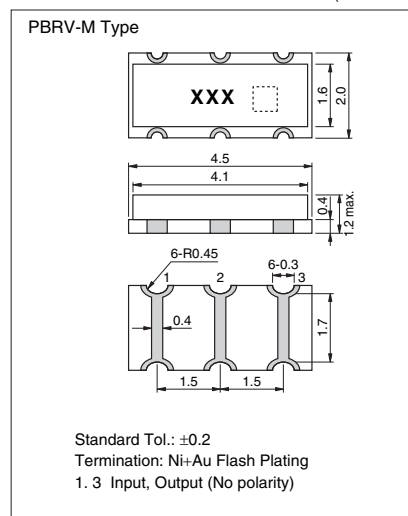


Dimensions

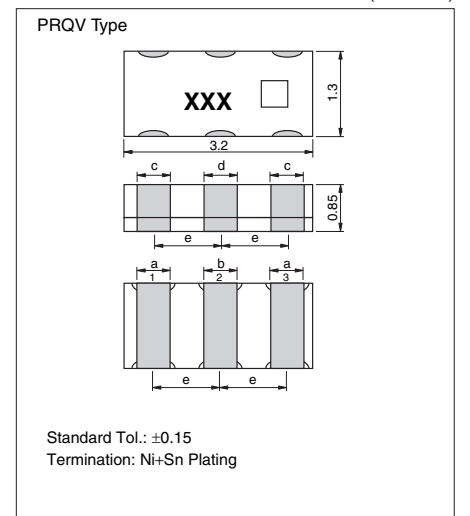
(Unit: mm)



(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