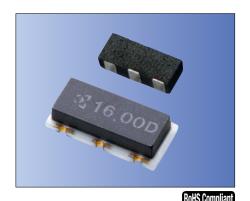
MHz Band Ceramic Resonators (SMD) PBRC-H/ PBRC-M/ PRQC Series



for Consumer Applications



Features

- Stable oscillation by using fundamental vibration in all frequencies
- Small & low profile
- Built-in capacitor structure
- Reflow solderable

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

- 1 Series
- 2 Frequency (MHz)
- ③ Type (H, M)
- 4 Packing R: Tape & Reel

PBRC-H (2000 pcs./ Reel) PBRC-M (3000 pcs./ Reel)

(Null): Bulk

(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

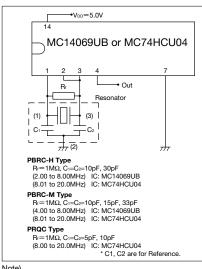
X −40°C to 85°C

7 Unique Code

Specifications

Series Frequency Range (MHz)		Frequency Tolerance (25°C)	Temperature Stability	Operating Temperature Range (°C)						
PBRC-HR	2.0 to 8.0	±0.50%	±0.30%	-40 to 85						
rbno-nn	8.1 to 20.0	±0.50%	±0.10%	-40 to 85						
	8.0 to 20.0	±0.50%	±0.10%	-40 to 85						
PBRC-MR	4.0 to 10.0	±0.50%	±0.30%	-40 to 85						
	10.1 to 20.0	±0.50%	±0.50%	-40 to 85						
PRQC 8.0 to 20.0		±0.50%	±0.50%	-40 to 85						

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.

How to Order (PRQC)



- (1) Series
- ② Frequency (MHz)
- 3 Type (C, S)
- 4 Packing R: Tape & Reel (3000 pcs./ Reel) (Null): Bulk
- ⑤ Frequency Tolerance at 25°C

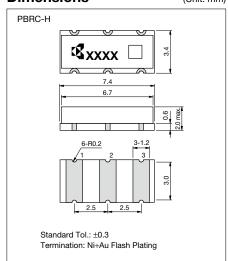
30	±0.3%		±0.4%		
50	±0.5%	70	±0.7%		

- 6 Built-in Capacitance 10pF: 10 5pF: 05
- Operating Temperature

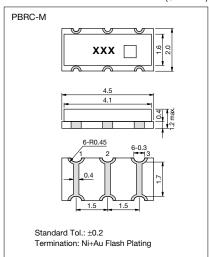
W	−20°C to 80°C	Х	−40°C to 85°C

8 Unique Code

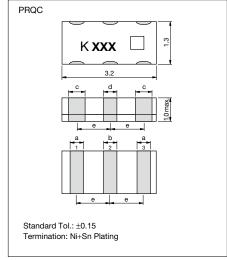
Dimensions (Unit: mm)



(Unit: mm)



(Unit: mm)



(Unit: mm)

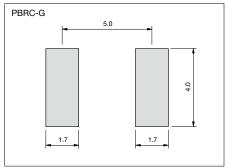
Туре	Frequency (MHz)	а	b	С	d	е
С	8.00 to 20.00	0.4	0.4	0.5	0.4	1.2
S	14.00 to 20.00	0.6	0.4	0.5	0.4	0.95

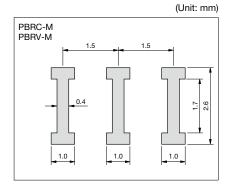
MHz Band Ceramic Resonators (SMD) Recommended Land Pattern/ Packaging

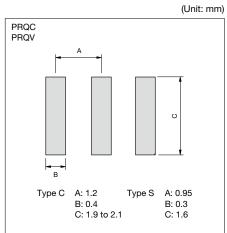


Recommended Land Pattern

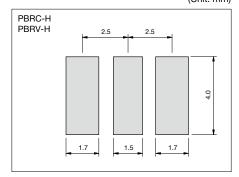
(Unit: mm)





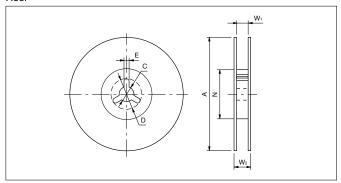


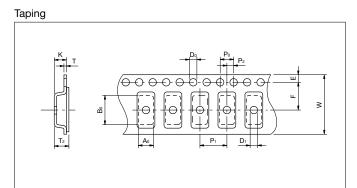
(Unit: mm)



Packaging







Code	Α	N	W 1	W 2	С	D	E
7.4×3.4×2.0mm	250±2.0	80±2.0	16.5 +1.1 -0.0	23.6 max.	13.0±0.5	21.0±0.8	2.0±0.5
4.5×2.0×1.2mm	180 +0	60 +1	13.0±0.3	15.4±1	13.0±0.2	21.0±0.8	2.0±0.5
3.2×1.3×1.3mm	180 +0	50 min	9.0±0.3	12.4 max.	13.0±0.5	21.0±0.8	2.0±0.5

Code	Ao	Bo	w	F	E	P ₁	P ₂	P ₀	D ₀	D ₁	Т	T ₂	K
7.4×3.4 ×2.0mm	3.80±0.1	7.80±0.1	16.00±0.3	7.50±0.1	1.75±0.1	8.00±0.1	2.0±0.1	4.00±0.1	1.50 +0.1	1.50 +0.1	0.30±0.05	2.45±0.2	2.40±0.2
4.5×2.0 ×1.2mm	2.20±0.1	4.70±0.1	12.00±0.2	5.5±0.05	1.75±0.1	4.00±0.1	2.0±0.05	4.00±0.1	1.50 +0.1 -0.0	1.0±0.1	0.30±0.05	1.85 max.	1.80 max.
3.2×1.3 ×1.3mm	1.50±0.2	3.45±0.2	8.00±0.3	3.50±0.05	1.75±0.1	4.00±0.1	2.0±0.05	4.00±0.1	1.50 +0.1 -0.0	1.0 +0.1 -0.0	0.25±0.05	1.40 max.	1.10±0.2