

PBRC -B, -D Series Chip Resonators

Built-in Capacitor MHz Band SMT Resonators

f_0 : 2.00 to 36.00 MHz

FEATURES

- 1) Built-in load capacitor
- 2) High reliability chip resonator in a ceramic case which can be reflow soldered and washed
- 3) Ultra-miniature size is suitable for compact equipment and high mounting density
- 4) Rectangular shape allows easy "pick and place" operation
- 5) 2000 pcs. per reel
- 6) Sold in increments of 2000 pcs.

HOW TO ORDER

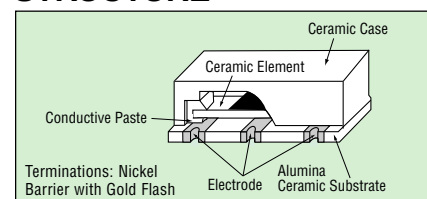
PBRC - 4.00 B R

① ② ③ ④ ⑤

- ① Type: (Piezo Bulk Resonator Chip)
- ② Oscillation frequency (MHz)
- ③ Resonator type:
B = With capacitor (2.00~20.00MHz)
D = With capacitor (20.01~36.00MHz)
- ④ Packaging:
R = Tape and reel
- ⑤ Frequency tolerance:
□ = $\pm 0.5\%$ (2.00~8.00MHz)
07 = $\pm 0.7\%$ (8.01~20.00MHz)
□ = $\pm 0.5\%$ (20.01~36.00MHz)



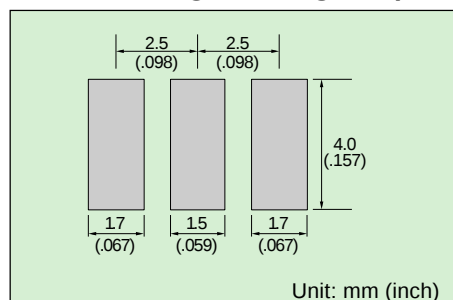
STRUCTURE



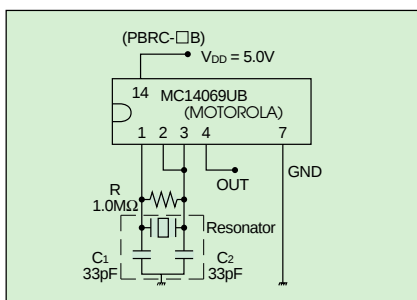
SPECIFICATIONS (PBRC-□B/PBRC-□D)

Series Type	B		D
Frequency Range	2.00 to 8.00 MHz		8.01 to 20.00 MHz
Load Capacitor	33 pF (typ.)		10 pF (typ.)
Frequency Tolerance	$\pm 0.5\%$		$\pm 0.7\%$
Resonant Impedance	2.00-2.90MHz 3.00-3.57MHz 3.58-8.00MHz	200 Ω max. 100 Ω max. 30 Ω max.	150 Ω Max. 150 Ω Max. 150 Ω Max.
Temperature Characteristics (-20 to +80°C)	$\pm 0.3\%$		$\pm 0.1\%$

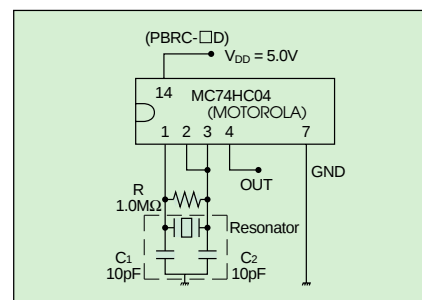
RECOMMENDED LAND PATTERN FOR PBRC-□B/D



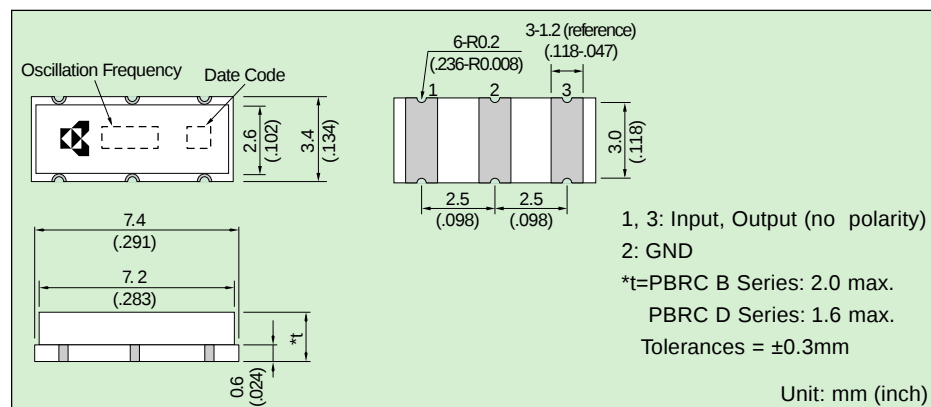
STANDARD TEST CIRCUIT 2.00 ~ 8.00 MHz



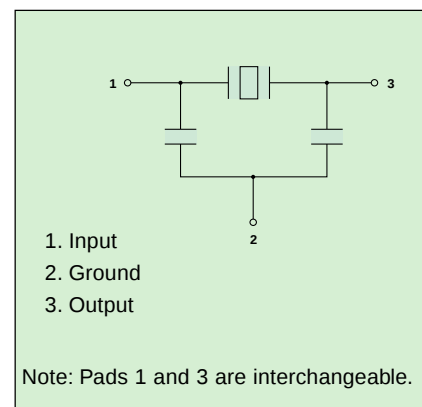
STANDARD TEST CIRCUIT 8.01 ~ 36.00 MHz



DIMENSIONS



PAD CONNECTION



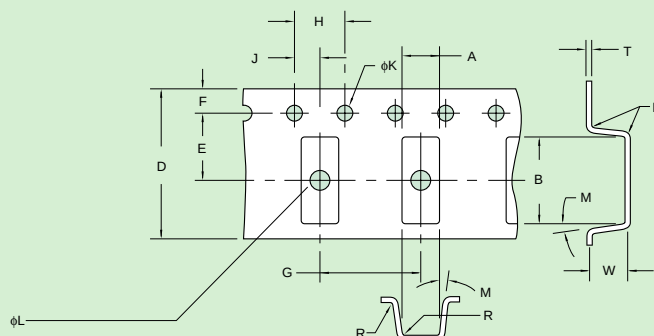
Tape & Reel Packaging

Surface Mountable Chip Resonators PBRC -A, -B, -D Types

2000 pieces per reel with 10 positions open at beginning and end of reel. Leader will be 200mm maximum.

TAPE DIMENSIONS

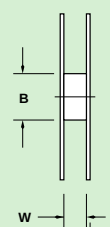
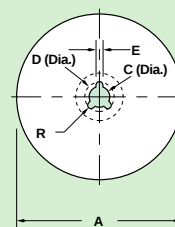
A	B	D	E	F	G	H	J	ϕK	M	R	W	T	ϕL
± 0.2	± 0.2	± 0.3	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1			± 0.2	± 0.1	± 0.05
3.8	7.8	16.0	7.5	1.75	8.0	4.0	2.0	1.5	10°max	0.3max	2.1	0.3	1.55



Units:mm

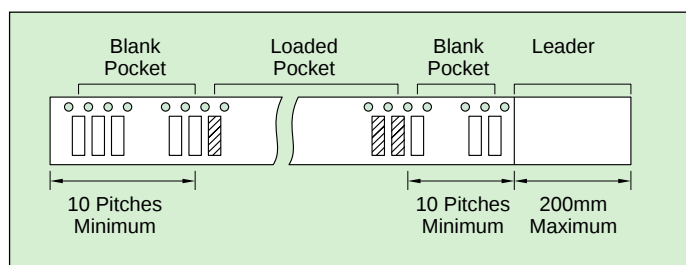
REEL DIMENSIONS

A	B	C	D	E	R	W	T
255	80	13	25	2	1.0R	17.5	2
± 1.0	± 0.5	± 0.5	± 0.8	± 0.5		± 1.5	± 0.5

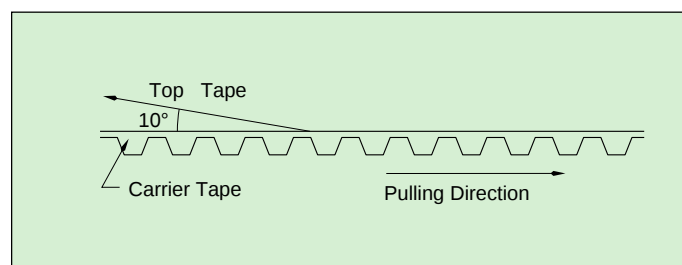


Units:mm

PACKING METHOD



TEST CONDITION OF PEELING STRENGTH



MARKING

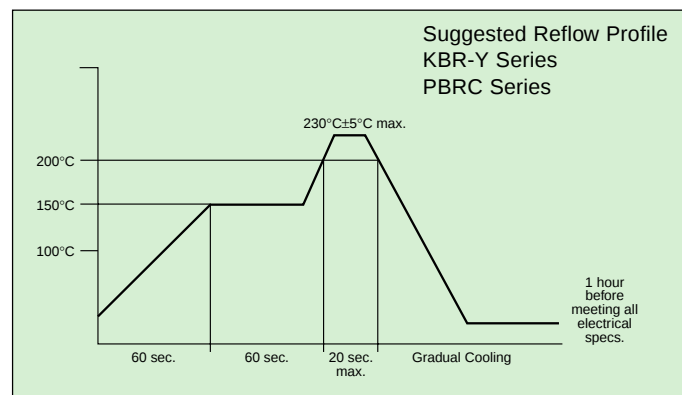
Marking of Reel

- Type Name
- Lot No.
- Quantity
- Vendor Name

Marking of Exterior Package

- Type Name
- Lot No.
- Quantity of Reel
- Shipping Date
- Vendor Name

REFLOW PROFILE



Mouser Electronics

Authorized Distributor

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

AVX:

[PBRC2.45GR50X000](#) [PBRC20.00GR70X000](#) [PBRC7.00GR50X000](#)

Kyocera AVX:

[PBRC-16.00BR07](#) [PBRC-11.0592BR](#) [PBRC-16.00BR](#) [PBRC-6.00BR-AL](#) [PBRC-11.06BR07](#) [PBRC-20.00BR07](#)
[PBRC-2.00BR](#) [PBRC-2.45BR](#) [PBRC-3.58BR](#) [PBRC-3.68BR](#) [PBRC-4.00BR](#) [PBRC-4.19BR](#) [PBRC-6.00BR](#) [PBRC-](#)
[8.00BR](#) [PBRC-10.00BR07](#) [PBRC-12.00BR07](#) [PBRC-20.00BR](#) [PBRC-4.91BR](#) [PBRC-4.00BR-AL](#) [PBRC-8.00BR-AL](#)
[PBRC-10.24BR07](#) [PBRC-10.70BR07](#) [PBRC-12.28BR07](#) [PBRC-12.29BR07](#) [PBRC-14.31BR07](#) [PBRC-14.32BR07](#)
[PBRC-14.60BR07](#) [PBRC-15.00BR07](#) [PBRC-3.18BR](#) [PBRC-3.20BR](#) [PBRC-3.38BR](#) [PBRC-3.69BR](#) [PBRC-5.00BR](#)
[PBRC-5.06BR](#) [PBRC-5.46BR1AL](#) [PBRC-6.60BR](#) [PBRC-6.96BR03](#) [PBRC-9.00BR07](#)