

PBRC -B, -D Series Chip Resonators

Built-in Capacitor MHz Band SMT Resonators

f_o : 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 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:
□ = ±0.5% (2.00~8.00MHz)
07 = ±0.7% (8.01~20.00MHz)
□ = ±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 | ±0.5% | | ±0.7% |
| Resonant Impedance | 2.00-2.90MHz 3.00-3.57MHz 3.58-8.00MHz | 200Ω max. 100Ω max. 30Ω max. | 150 Ω Max. 150 Ω Max. 150 Ω Max. |
| Temperature Characteristics (-20 to +80°C) | ±0.3% | | ±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

