

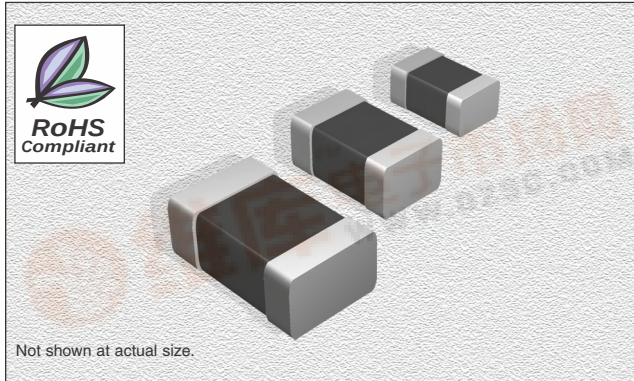
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# CTCBF Series

## Power

### From 10 $\Omega$ to 1,500 $\Omega$

#### ENGINEERING KIT #33



#### CHARACTERISTICS

**Description:** Power multi-layer ferrite chip beads**Applications:** Noise suppression in computer peripherals, telecommunication equipment, data communication equipment and other consumer electronics**Operating Temperature:** -55°C to +125°C**Impedance Range:**

CTCB0402F: 10-120  $\Omega$   
 CTCB0603F: 11-1000  $\Omega$   
 CTCB0805F: 11-1000  $\Omega$   
 CTCB1206F: 19-1500  $\Omega$   
 CTCB1210F: 60-90  $\Omega$   
 CTCB1806F: 50-150  $\Omega$   
 CTCB1812F: 19-190  $\Omega$

**Testing:** Impedance is tested on an HP4287A at at specified frequency.**Packaging:** Tape & Reel**Miscellaneous:** RoHS Compliant.**Marking:** Reels marked with part number**Additional Information:** Additional electrical & physical information available upon request**Samples available. See website for ordering information.**

#### SPECIFICATIONS

Parts are available in  $\pm 25\%$  tolerance only.

| Part Number    | Impedance ( $\Omega$ ) | Test Freq. (MHz) | DCR Max. ( $\Omega$ ) | IDC (mA) |
|----------------|------------------------|------------------|-----------------------|----------|
| CTCB0402F-100P | 10                     | 100              | .03                   | 2000     |
| CTCB0402F-300P | 30                     | 100              | .05                   | 1700     |
| CTCB0402F-400P | 40                     | 100              | .075                  | 1500     |
| CTCB0402F-600P | 60                     | 100              | .075                  | 1500     |
| CTCB0402F-700P | 70                     | 100              | .09                   | 1200     |
| CTCB0402F-800P | 80                     | 100              | .09                   | 1200     |
| CTCB0402F-121P | 120                    | 100              | .09                   | 1200     |
| CTCB0603F-110P | 11                     | 100              | .02                   | 4000     |
| CTCB0603F-190P | 19                     | 100              | .03                   | 3000     |
| CTCB0603F-200P | 20                     | 100              | .03                   | 3000     |
| CTCB0603F-220P | 22                     | 100              | .03                   | 3000     |
| CTCB0603F-250P | 25                     | 100              | .03                   | 3000     |
| CTCB0603F-300P | 30                     | 100              | .03                   | 3000     |
| CTCB0603F-310P | 31                     | 100              | .035                  | 3000     |
| CTCB0603F-400P | 40                     | 100              | .035                  | 3000     |
| CTCB0603F-470P | 47                     | 100              | .04                   | 3000     |
| CTCB0603F-500P | 50                     | 100              | .04                   | 3000     |
| CTCB0603F-560P | 56                     | 100              | .04                   | 3000     |
| CTCB0603F-600P | 60                     | 100              | .04                   | 3000     |
| CTCB0603F-680P | 68                     | 100              | .05                   | 2500     |
| CTCB0603F-700P | 70                     | 100              | .05                   | 2500     |
| CTCB0603F-750P | 75                     | 100              | .05                   | 2500     |
| CTCB0603F-800P | 80                     | 100              | .05                   | 2500     |
| CTCB0603F-900P | 90                     | 100              | .05                   | 2500     |
| CTCB0603F-101P | 100                    | 100              | .05                   | 2500     |
| CTCB0603F-121P | 120                    | 100              | .05                   | 2500     |
| CTCB0603F-151P | 150                    | 100              | .085                  | 2000     |
| CTCB0603F-181P | 180                    | 100              | .09                   | 2000     |
| CTCB0603F-201P | 200                    | 100              | .095                  | 2000     |
| CTCB0603F-221P | 220                    | 100              | .10                   | 2000     |
| CTCB0603F-301P | 300                    | 100              | .10                   | 2000     |
| CTCB0603F-501P | 500                    | 100              | .15                   | 1500     |
| CTCB0603F-601P | 600                    | 100              | .20                   | 1000     |
| CTCB0603F-102P | 1000                   | 100              | .25                   | 800      |
| CTCB0805F-110P | 11                     | 100              | .01                   | 6000     |
| CTCB0805F-170P | 17                     | 100              | .02                   | 5000     |
| CTCB0805F-300P | 30                     | 100              | .02                   | 4000     |
| CTCB0805F-500P | 50                     | 100              | .025                  | 3000     |
| CTCB0805F-600P | 60                     | 100              | .03                   | 3000     |
| CTCB0805F-800P | 80                     | 100              | .04                   | 3000     |
| CTCB0805F-121P | 120                    | 100              | .04                   | 3000     |
| CTCB0805F-201P | 200                    | 100              | .05                   | 2500     |
| CTCB0805F-301P | 300                    | 100              | .08                   | 2000     |
| CTCB0805F-601P | 600                    | 100              | .10                   | 2000     |
| CTCB0805F-102P | 1000                   | 100              | .12                   | 1500     |
| CTCB1206F-190P | 19                     | 100              | .015                  | 6000     |
| CTCB1206F-320P | 32                     | 100              | .035                  | 4000     |
| CTCB1206F-500P | 50                     | 100              | .02                   | 4000     |
| CTCB1206F-800P | 80                     | 100              | .025                  | 3000     |
| CTCB1206F-900P | 90                     | 100              | .03                   | 2500     |
| CTCB1206F-101P | 100                    | 100              | .03                   | 2500     |
| CTCB1206F-301P | 300                    | 100              | .06                   | 2000     |
| CTCB1206F-501P | 500                    | 100              | .10                   | 2000     |
| CTCB1206F-601P | 600                    | 100              | .10                   | 1800     |
| CTCB1206F-102P | 1000                   | 50               | .15                   | 1200     |
| CTCB1206F-122P | 1200                   | 50               | .18                   | 1000     |
| CTCB1206F-152P | 1500                   | 50               | .20                   | 800      |
| CTCB1210F-600P | 60                     | 100              | .03                   | 4000     |
| CTCB1210F-900P | 90                     | 100              | .03                   | 3000     |
| CTCB1806F-500P | 50                     | 100              | .02                   | 6000     |
| CTCB1806F-600P | 60                     | 100              | .02                   | 5000     |
| CTCB1806F-800P | 80                     | 100              | .03                   | 4000     |
| CTCB1806F-151P | 150                    | 100              | .10                   | 2000     |
| CTCB1812F-190P | 19                     | 100              | .03                   | 6000     |
| CTCB1812F-300P | 30                     | 100              | .03                   | 6000     |
| CTCB1812F-470P | 47                     | 100              | .03                   | 6000     |
| CTCB1812F-500P | 50                     | 100              | .03                   | 6000     |
| CTCB1812F-600P | 60                     | 100              | .03                   | 6000     |
| CTCB1812F-700P | 70                     | 100              | .03                   | 6000     |
| CTCB1812F-800P | 80                     | 100              | .03                   | 4000     |
| CTCB1812F-900P | 90                     | 100              | .03                   | 4000     |
| CTCB1812F-121P | 120                    | 100              | .03                   | 4000     |
| CTCB1812F-125P | 125                    | 100              | .03                   | 4000     |
| CTCB1812F-151P | 150                    | 100              | .03                   | 4000     |
| CTCB1812F-191P | 190                    | 100              | .03                   | 4000     |

05.30.08

Manufacturer of Passive and Discrete Semiconductor Components

800-684-5322 Inside US

949-453-1811 Outside US

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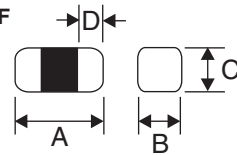
## CTCBF Series

### Power

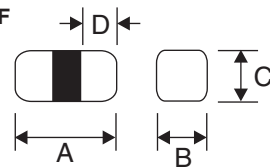
#### PHYSICAL DIMENSIONS

| Size             |        | A           | B           | C           | D           |
|------------------|--------|-------------|-------------|-------------|-------------|
| <b>0402/1005</b> | inches | 0.039±0.006 | 0.02±0.006  | 0.02±0.006  | 0.01±0.006  |
|                  | mm     | 1.0±0.15    | 0.5±0.15    | 0.5±0.15    | 0.25±0.15   |
| <b>0603/1608</b> | inches | 0.063±0.008 | 0.03±0.008  | 0.03±0.008  | 0.016±0.008 |
|                  | mm     | 1.6±0.2     | 0.8±0.2     | 0.8±0.2     | 0.4±0.2     |
| <b>0805/2012</b> | inches | 0.08±0.008  | 0.047±0.008 | 0.035±0.008 | 0.02±0.012  |
|                  | mm     | 2.0±0.2     | 1.2±0.2     | 0.9±0.2     | 0.5±0.3     |
| <b>1206/3216</b> | inches | 0.126±0.008 | 0.063±0.008 | 0.043±0.008 | 0.02±0.012  |
|                  | mm     | 3.2±0.2     | 1.6±0.2     | 1.1±0.2     | 0.5±0.3     |
| <b>1210/3225</b> | inches | 0.126±0.008 | 0.098±0.008 | 0.05±0.008  | 0.02±0.12   |
|                  | mm     | 3.2±0.2     | 2.5±0.2     | 1.3±0.2     | 0.3±0.3     |
| <b>1806/4516</b> | inches | 0.177±0.01  | 0.063±0.008 | 0.063±0.008 | 0.02±0.012  |
|                  | mm     | 4.5±0.25    | 1.6±0.2     | 1.6±0.2     | 0.5±0.3     |
| <b>1812/4532</b> | inches | 0.177±0.008 | 0.126±0.008 | 0.05±0.008  | 0.02±0.012  |
|                  | mm     | 4.5±0.2     | 3.2±0.2     | 1.5±0.2     | 0.5±0.3     |

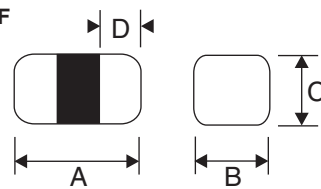
CTCB0402F



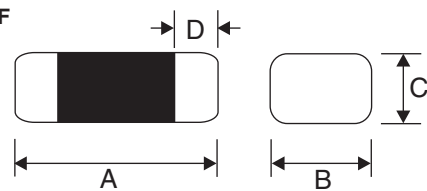
CTCB0603F



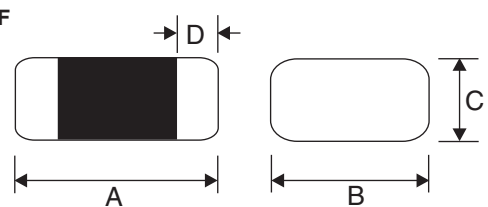
CTCB0805F



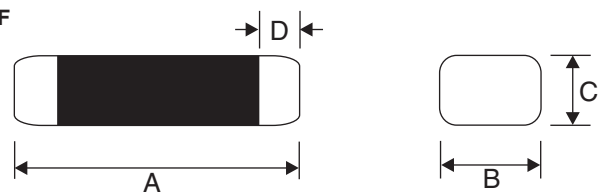
CTCB1206F



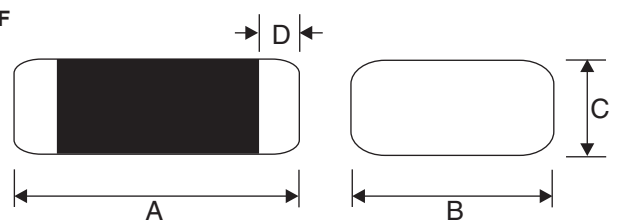
CTCB1210F



CTCB1806F



CTCB1812F



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