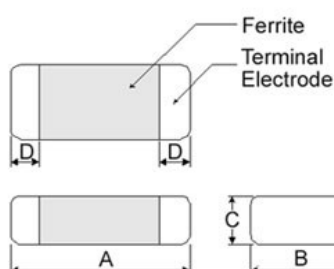


SMD Multilayer Ferrite Chip Beads

FEATURES

- Internal silver printed layers and magnetic shielded structures to minimize crosstalk
- Monolithic structure for excellent reliability
- Smaller DC resistance and larger allowable current than CVB series
- Can be used in a wide range of frequency to suppress EMI



Shape and Dimensions

Unit: mm [inch]

Type	A	B	C	D
3225	3.2±0.2	2.5±0.2	1.3±0.2	0.7±0.3

PRODUCT IDENTIFICATION

CVB
①

3225
②

P
③

301
④

T
⑤

①

EMI BEADS	
CVB	Chip Ferrite Bead For

②

External Dimensions (L×W) (mm)	
3225	3.2×2.5

③

Type	
P	Super current

④

Nominal Impedance	
Example	Nominal Value
301	300 Ω

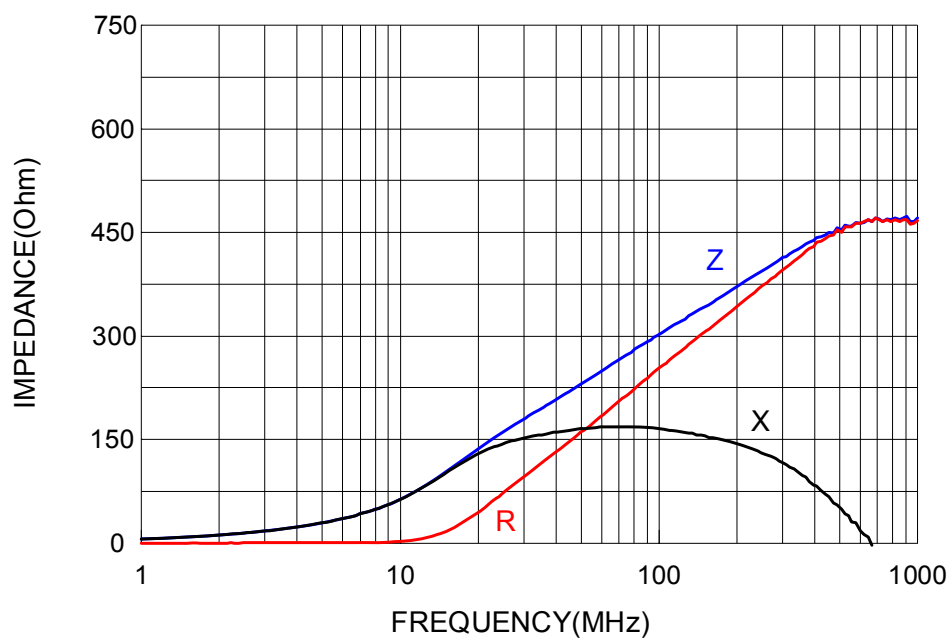
⑤

Packing	
T	Tape & Reel

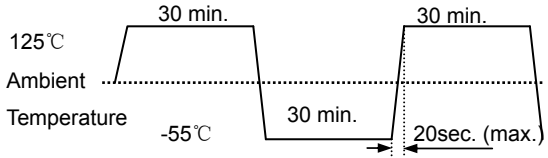
SMD Multilayer Ferrite Chip Beads

Electrical Characteristics

Part Number	Impedance (Ω)	Test frequency (MHz)	DC Resistance (Ω) max	Rated Current (mA) max
CVB3225P301T	$300 \pm 25\%$	100MHz	0.008	5000



SMD Multilayer Ferrite Chip Beads

Items	Requirements	Test Methods and Remarks
6. Dropping	① No visible mechanical damage. ② Impedance change: Within $\pm 20\%$.	① Drop chip bead 10 times on a concrete floor from a height of 100 cm.
7. Temperature	① Impedance change should be within $\pm 20\%$ of initial value measuring at 20°C .	① Temperature range: -55°C to $+125^{\circ}\text{C}$ Reference temperature: $+20^{\circ}\text{C}$
8. Solderability	① No visible mechanical damage. ② Wetting shall be exceeded 75% coverage for 0603 series, and 95% coverage for the other.	① Solder temperature: $240 \pm 2^{\circ}\text{C}$ ② Duration: 3 sec ③ Solder: Sn/3.0Ag/0.5Cu ④ Flux: 25% Resin and 75% ethanol in weight
9. Resistance to Soldering Heat	① No visible mechanical damage. ② Wetting shall be exceeded 75% coverage for 0603 series, and 95% coverage for the other ③ Impedance change: Within $\pm 20\%$.	① Solder temperature: $260 \pm 3^{\circ}\text{C}$ ② Duration: 5 sec ③ Solder: Sn/3.0Ag/0.5Cu ④ Flux: 25% Resin and 75% ethanol in weight ⑤ The chip shall be stabilized at normal condition for 1~2 hours before measuring.
10. Thermal Shock	① No visible mechanical damage. ② Impedance change: Within $\pm 20\%$.	① Temperature and time: -55°C for 30 ± 3 min $\rightarrow$ 125°C for 30 ± 3 min ② Transforming interval: Max. 20 sec ③ Tested cycle: 100 cycles ④ The chip shall be stabilized at normal condition for 1~2 hours before measuring.  The diagram shows a temperature profile over time. It starts at 'Ambient' temperature, rises to 125°C and holds for 30 min. It then falls to -55°C and holds for 30 min. The temperature then rises back to 'Ambient'. The cooling and heating rates are indicated as 20sec. (max.).
11. Resistance to Low Temperature	① No visible mechanical damage. ② Impedance change: Within $\pm 20\%$.	① Temperature: $-55 \pm 2^{\circ}\text{C}$ ② Duration: 1000^{+24} hours ③ The chip shall be stabilized at normal condition for 1~2 hours before measuring.
12. Damp Heat (Steady States)	① No visible mechanical damage. ② Impedance change: Within $\pm 20\%$.	① Temperature: $60 \pm 2^{\circ}\text{C}$ ② Humidity: 90% to 95% RH ③ Duration: 1000^{+24} hours ④ The chip shall be stabilized at normal condition for 1~2 hours before measuring.
13. Loading Under Damp Heat	① No visible mechanical damage. ② Impedance change: Within $\pm 20\%$.	① Temperature: $60 \pm 2^{\circ}\text{C}$ ② Humidity: 90% to 95% RH ③ Duration: 1000^{+24} hours ④ Applied current: Rated current ⑤ The chip shall be stabilized at normal condition for 1~2 hours before measuring.
14. Loading at High Temperature (Life Test)	① No visible mechanical damage. ② Impedance change: Within $\pm 20\%$.	① Temperature: $125 \pm 2^{\circ}\text{C}$ ② Duration: 1000^{+24} hours ③ Applied current: Rated current. ④ The chip shall be stabilized at normal condition for 1~2 hours before measuring.