

Ferrite Chip Bead 鐵氧磁體晶片磁珠

Specifications

Impedance Range : 7 to 2000 Ohms

Operating Temperature Range : -55°C to +125°C

Soldering Method : Reflow or Wave Soldering

Packaging Method : Tape & Reel (per EIA Specifications)

Storage Temperature : -40°C to +85°C, 70% RH Max

阻抗值範圍：7 至 2000 Ohms

操作溫度範圍：-55°C 至 125°C

焊法：迴焊或波焊

包裝：捲帶（依EIA規格）

儲存溫度：-40°C 至 +85°C，相對溼度上限：70%



Features 特色

Chip beads perform the function of removing RF energy that exists within a transmission line structure. This RF energy is an AC sine wave component that co-exists with the DC voltage level of the transmitted signal. The DC component is the intended signal of interest whereas RF energy will propagate down the trace and radiate as EMI. To remove this unwanted energy, use of chip beads perform the function of being a high frequency resistor that allows DC energy to pass through while removing AC energy.

晶片磁珠可用來去除訊號傳輸系統中的微波能量；此能量具有交流正弦波的特性，與傳輸訊號之直流電壓準位共存。AC 微波在傳導過程中會逐漸的衰減，並伴隨著電磁波的輻射，如此對於直流工作訊號造成干擾。而晶片磁珠在高頻時即可如電阻般，只容許直流訊號通過而阻絕此一交流雜訊，達到消除干擾目的。

Application Field 應用領域

Filtering between analog and digital circuitry, clock generation circuitry, I/O interconnects, isolation between RF noisy circuits and logic devices susceptible to functional degradation, power supply filtering to prevent conducted RF energy from corrupting the power generation circuitry, high frequency EMI prevention of computers, printers, VCRs, TVs and portable telephones.

類比與數位線路之間的濾波、週期性訊號產生線路、輸入 / 輸出連結埠、隔絕微波雜訊線路與易功能性衰減的邏輯運算元件、過濾微波雜訊以確保電源供應器所提供之能量品質、電腦 / 印表機 / 攝錄影機 / 電視以及行動電話等的高頻電磁干擾濾波器。

Series	Size	Impedance	Test Freq.	DCR max.	Rated Current
產品系列	尺寸	阻抗(Ω)	測試頻率(MHz)	直流電阻最大值(Ω)	額定電流(mA)
CB0402	1.0(L)* 0.5(W)* 0.5(T) mm/ 0.04(L)* 0.02(W)* 0.02(T) inch	20-600	100	0.13-1	300-200
CB0603	1.6(L)* 0.8(W)* 0.8(T) mm/ 0.06(L)* 0.03(W)* 0.03(T) inch	10-1000	100	0.05-0.6	600-100
CB0805	2.0(L)* 1.25(W)* 0.9(T) mm/ 0.08(L)* 0.05(W)* 0.035(T) inch	7-2200	100	0.05-0.6	600-200
CB1206	3.2(L)* 1.6(W)* 1.1(T) mm/ 0.126(L)* 0.06(W)* 0.04(T) inch	19-2000	100-30	0.05-0.5	600-200
CB1210	3.2(L)* 2.5(W)* 1.3(T) mm/ 0.126(L)* 0.098(W)* 0.05(T) inch	31-90	100	0.3	400
CB1806	4.5(L)* 1.6(W)* 1.6(T) mm/ 0.18(L)* 0.06(W)* 0.06(T) inch	68-150	100	0.1-0.3	500-200
CB1812	4.5(L)* 3.2(W)* 1.5(T) mm/ 0.18(L)* 0.126(W)* 0.06(T) inch	70-120	100	0.4	200