

Multilayer Ferrite Bead Array

積層式鐵氧體排感



INTRODUCTION 產品介紹

ZCPS series consists of 4 circuits of ferrite beads and suitable for EMI suppression in smaller digital equipment.

ZCPS 系列由四組磁珠電路組成，適用於較小的數位設備以抑制雜訊干擾。

FEATURE 特色

1. Available in a wide range of impedance values providing excellent EMI suppression characteristics for various types of noise.
阻值範圍寬，提供優越 EMI 抑制特性，適用於各種雜訊。
2. Heat generation and crosstalk between adjacent circuits is minimized.
熱生成及相鄰電路間的串音減至最低。
3. Internal electrodes feature low DC resistance, minimizing wasteful power consumption.
內電極特色為低直流電阻，降低不必要的電流損耗。
4. Monolithic structure ensures high reliability.
單石結構，確保高可靠性。

APPLICATION 適用產品

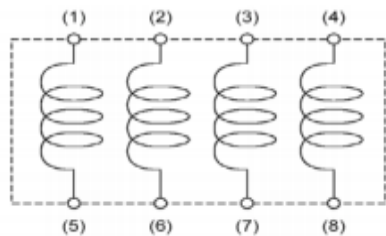
To suppress EMI/RFI and to prevent self-oscillation in electronic products. For example:
為抑制 EMI/RFI 及避免電子產品之自我振盪，例如：

1. Mother board, tablet PC, notebook, desktop computers and peripheral equipment.
主機板、平板電腦、筆記型電腦、桌上型電腦及其週邊設備。
2. DSC, DVC, LCD Television, Set Top Box.
數位相機、數位攝影機、液晶電視機、數位機上盒。
3. Mobile phone, smart phone, PND.
行動電話、智慧手機、個人導航設備。
4. Digital communication equipment.
數位通訊設備。
5. Various electronic equipment.
各式電子設備。
6. Various automotive electronics.
各式汽車設備。
7. Circuit where a stable ground is unavailable.
缺乏穩定參考地之電路。

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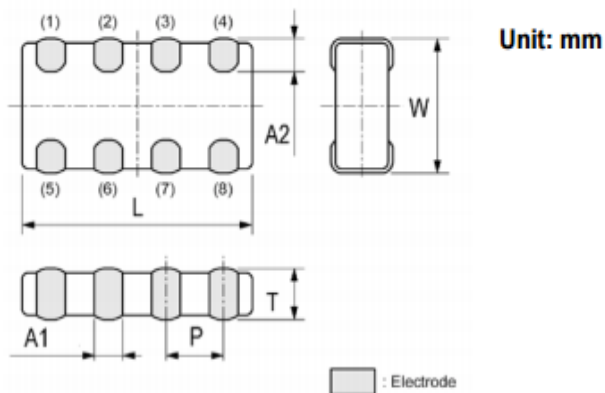
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EQUIVALENT CIRCUIT DIAGRAM 等效電路圖



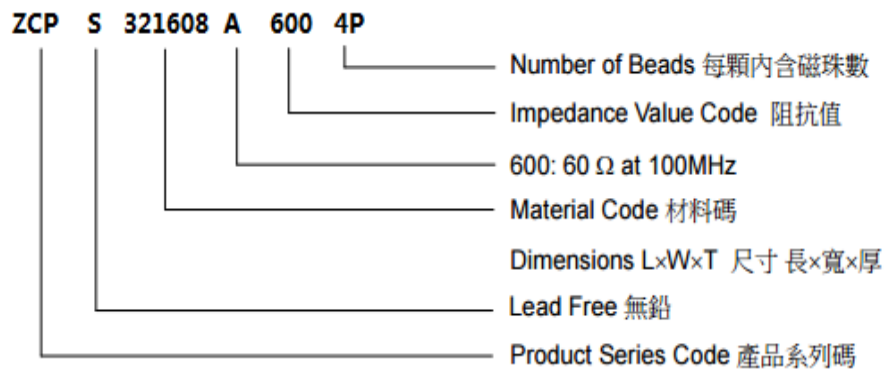
No polarity.

SIZE AND DIMENSION 尺寸和邊長



SIZE 尺寸	L 長 mm	W 寬 mm	T 厚 mm	A1 銀寬 mm	A2 銀寬 mm	P 端電極間距 mm
201005	2.0±0.15	1.0±0.15	0.45±0.05	0.25±0.15	0.25±0.15	0.5±0.1
321608	3.2±0.2	1.6±0.2	0.8±0.2	0.4±0.15	0.3±0.2	0.8±0.1

PART NUMBER SYSTEM 編碼系統



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ZCPS321608 (1206) & ZCPS201005 (0804) TYPE 類型

Electrical Characteristics 電氣特性

Part Number 產品料號	Impedance 阻抗 $\Omega \pm 25\%$ 歐姆 @ 100MHz	DC Resistance 直流電阻 Ω (Max.) 歐姆	Rated Current 耐電流 mA (Max.)
ZCPS201005A600 4P	60	0.25	100
ZCPS201005A121 4P	120	0.50	50
ZCPS201005A221 4P	220	0.70	50
ZCPS201005A601 4P	600	1.1	50
ZCPS201005A102 4P	1000	1.3	50
ZCPS201005B121 4P	120	0.6	50
ZCPS201005B221 4P	220	0.9	50
ZCPS321608A600 4P	60	0.25	200
ZCPS321608A121 4P	120	0.30	150
ZCPS321608A301 4P	300	0.30	150
ZCPS321608A601 4P	600	0.50	100
ZCPS321608A102 4P	1000	0.70	50
ZCPS321608B121 4P	120	0.40	150
ZCPS321608B221 4P	220	0.45	150
ZCPS321608B471 4P	470	0.55	100
ZCPS321608B601 4P	600	0.65	100
ZCPS321608K601 4P	600	0.70	100
ZCPS321608K102 4P	1000	0.80	50
ZCPS321608H121 4P	120	0.60	50
ZCPS321608H301 4P	300	1.00	50
ZCPS321608H601 4P	600	1.70	35
ZCPS321608H102 4P	1000	2.10	35

* TEST EQUIPMENT: E4991A IMPEDANCE ANALYZER 量測儀器：E4991A 阻抗分析儀

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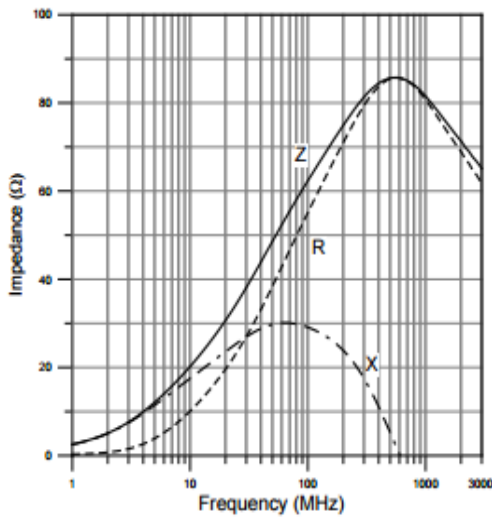
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ZCPS321608 (1206) TYPE 類型

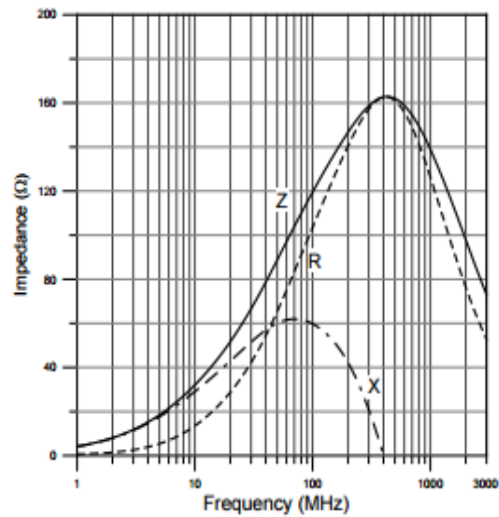
TYPICAL ELECTRICAL CHARACTERISTICS 典型電氣特性

Z, R, X vs. FREQUENCY CHARACTERISTICS 阻抗、電阻、感抗對頻率特性

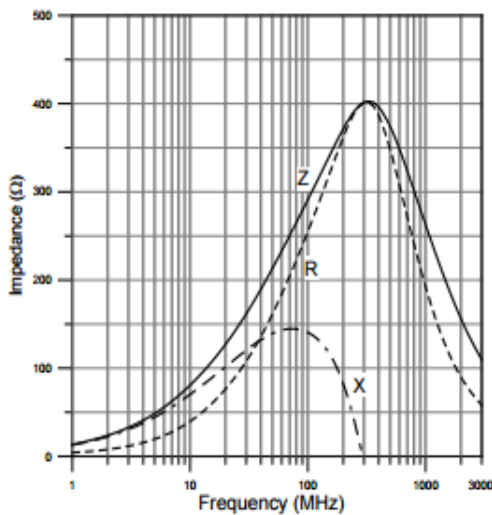
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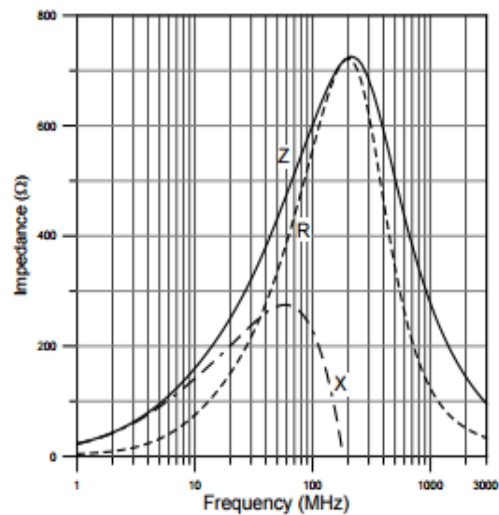
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ZCPS321608A301 4P



ZCPS321608A601 4P



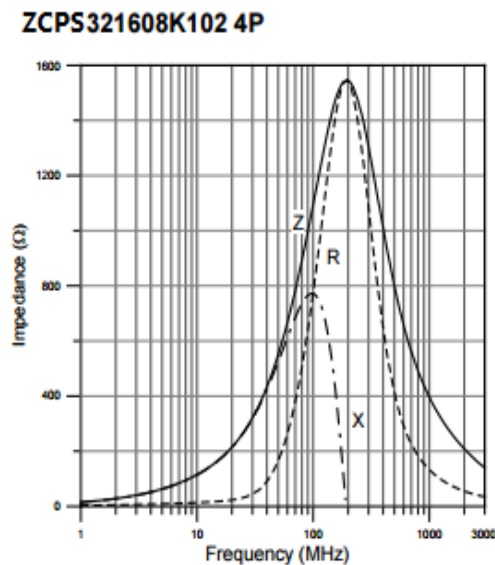
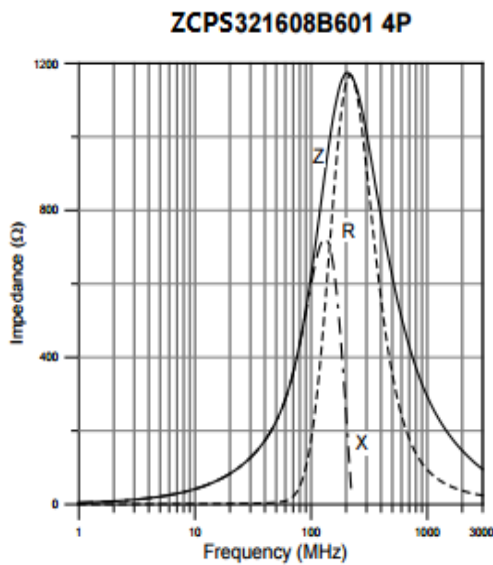
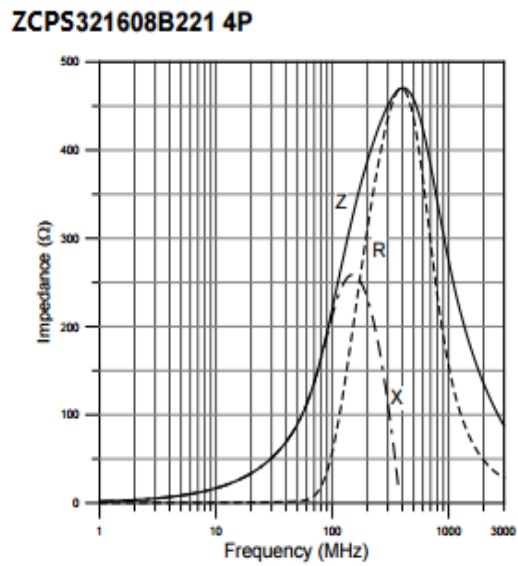
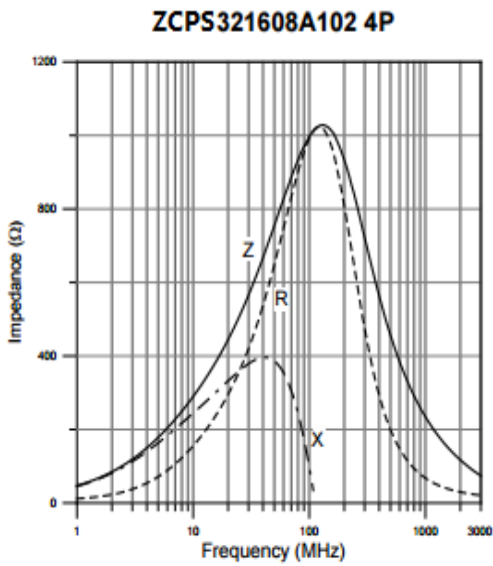
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ZCPS321608 (1206) TYPE 類型

TYPICAL ELECTRICAL CHARACTERISTICS 典型電氣特性

Z, R, X vs. FREQUENCY CHARACTERISTICS 阻抗、電阻、感抗對頻率特性



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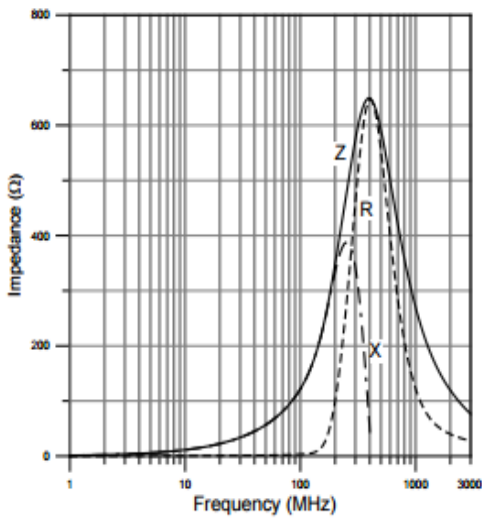
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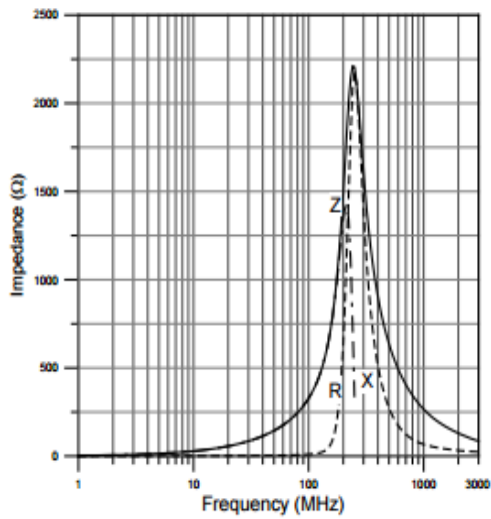
TYPICAL ELECTRICAL CHARACTERISTICS 典型電氣特性

Z, R, X vs. FREQUENCY CHARACTERISTICS 阻抗、電阻、感抗對頻率特性

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