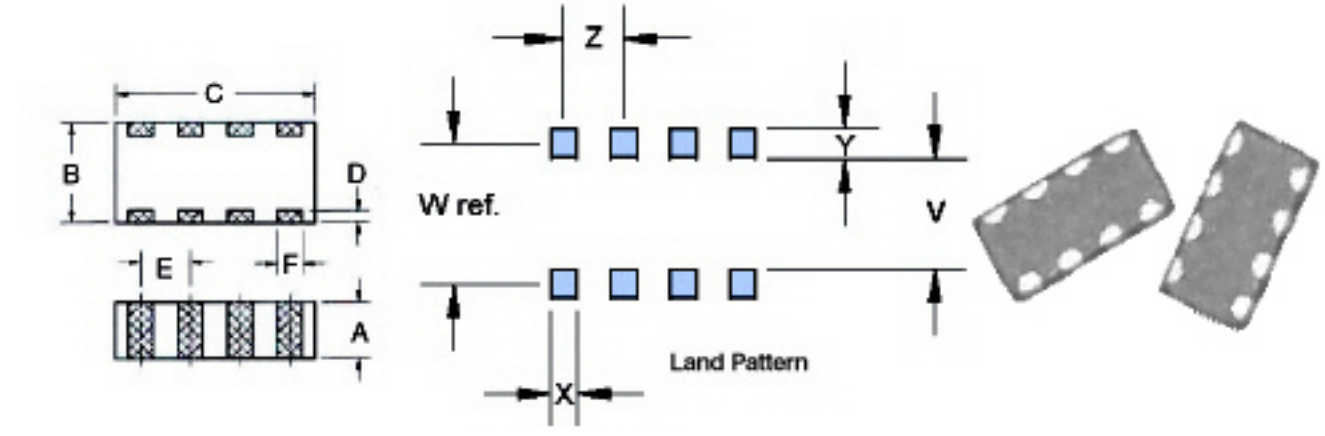
Fair-Rite Products Corp.
Your Signal Solution®
Ferrite Components for the Electronics Industry
Fair-Rite Products Corp. PO Box J,One Commercial Row, Wallkill, NY 12589-0288
Phone: (888) 324-7748 www.fair-rite.com

Fair-Rite Product's Catalog
Part Data Sheet, 2512061027Y0A4
Printed: 2013-07-03



Part Number:	2512061027Y0A4
Frequency Range:	Standard Signal Speed
Description:	MULTI-LAYER TAPE & REEL
Application:	Suppression Components
Where Used:	Board Component
Part Type:	Chip Arrays

Mechanical Specifications

Weight: .030 (g)

Part Type Information

Fair-Rite offers an effective cost and real estate reduction by our line of chip arrays. Four chip beads, packaged in a 1206 (3216) size, for suppression of conducted EMI where size is at a premium. Chip arrays are 100% tested for impedance and dc resistance.

-Chip arrays have plated contacts, 100% tin over a nickel undercoating.

-Chip arrays are supplied taped and reeled.

-Chip arrays are controlled for impedance. The impedance values listed are typical values. The nominal impedance with a ± 25% tolerance is specified for the + marked 100 MHz frequency. Chip arrays are measured for impedance on the HP 4291A and fixture HP 16192A.

-The arrays can accommodate both reflow and wave soldering technologies.

-Suggested land patterns are in accordance to the IPC-7351.

-Recommended storage and operating temperature range is -55°C to 125°C.

-Performance curves for individual components can be viewed by clicking on the part number in the chart.

-'Chip Bead Kit' (part number 0199000018) contains the 600 ohm 4 line chip array.

-The maximum voltage between adjacent beads is 5V.

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Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	0.80	±0.20	0.031	-
B	1.60	±0.20	0.063	-
C	3.20	±0.20	0.126	-
D	0.30	±0.20	0.011	-
E	0.80	±0.10	0.031	-
F	0.04	±0.15	0.016	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
50 MHz	770
100 MHz+	1000 ±25%
500 MHz	400
1000 MHz	200

Electrical Properties	
Max DCR (Ω)	0.70
Max Current (mA)	50

Land Patterns

V	W ref	X	Y	Z
0.700 0.028	1.300 0.051	0.500 0.020	0.600 0.024	0.800 0.032

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
8	4	3000	-	-

Package Size

Pkg Size
1206 (3216)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.

The column H(Oe) gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note How to choose Ferrite Components for EMI Suppression.

A ½ turn is defined as a single pass through a hole.

Σl/A - Core Constant

l_e: Effective Path Length

A_e: Effective Cross-Sectional Area

V_e: Effective Core Volume

A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

NI - Value of dc Ampere-turns

N/AWG - Number of Turns/Wire Size for Test Coil

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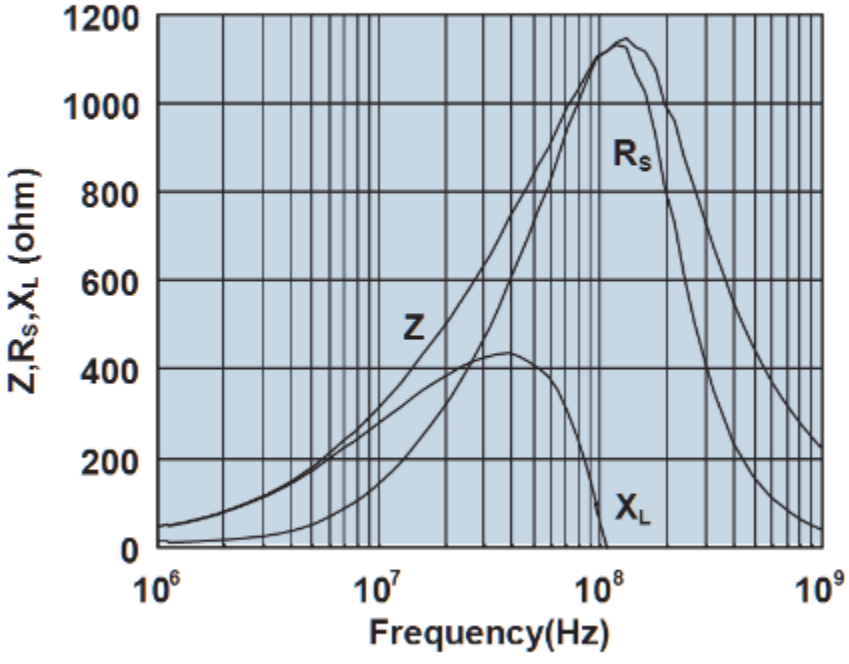
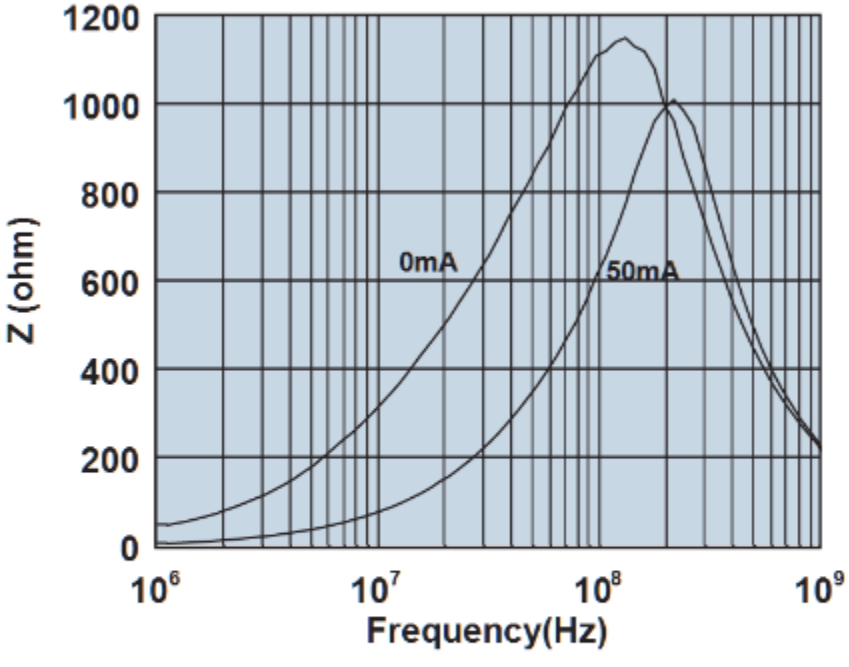


Impedance, reactance, and resistance vs. frequency.



Impedance vs. frequency with dc bias.

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