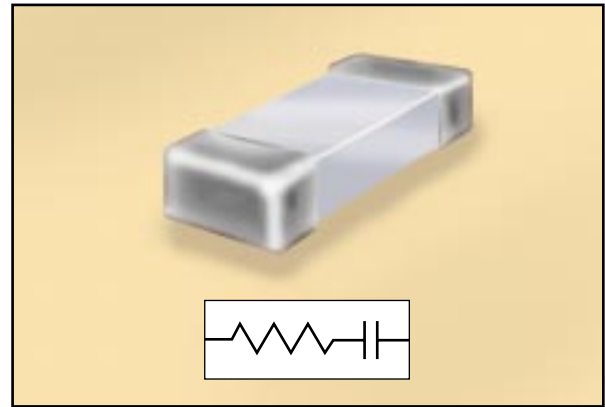


GENERAL DESCRIPTION

To meet the needs of today's high speed circuits and reduced power requirements, AVX has developed the |Z| Chip. This impedance matching component, available in a standard 0603 package, breaks the barrier of component density by providing a truly integrated series resistor-capacitor design.

The |Z| Chip enables a board designer to achieve maximum signal integrity by eliminating reflections while reducing DC power consumption. This is the first part to be introduced in the |Z| Family of components.



FEATURES

- Low Profile
- Surface Mountable
- Volumetrically Efficient
- Several Standard Designs
- Custom Designs Available

APPLICATIONS

- Line Termination
- Timing
- Low Power Snubber

HOW TO ORDER

Z	3	D	1	3	A	101	M	470	K	A	T	1	A
Z Chip	Size 1 = 0603 2 = 0805 3 = 0612	A=Array D=Discrete	Number of Elements 1 or 4	Voltage Code	Dielectric	Capacitor Code	Capacitor Tolerance Code	Resistor Code	Resistor Tolerance Code	Failure Rate	Termination Code	Pack Code	Special Code

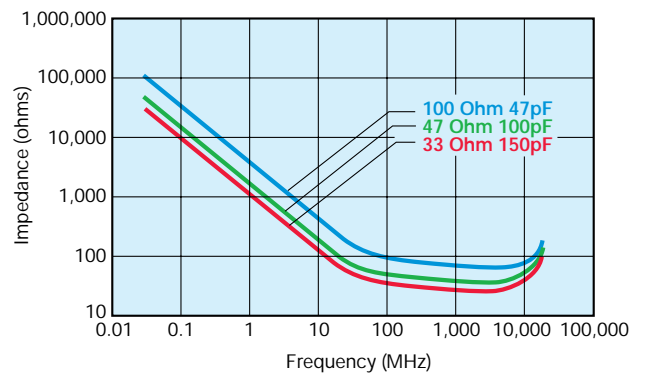
STOCK PART VALUES

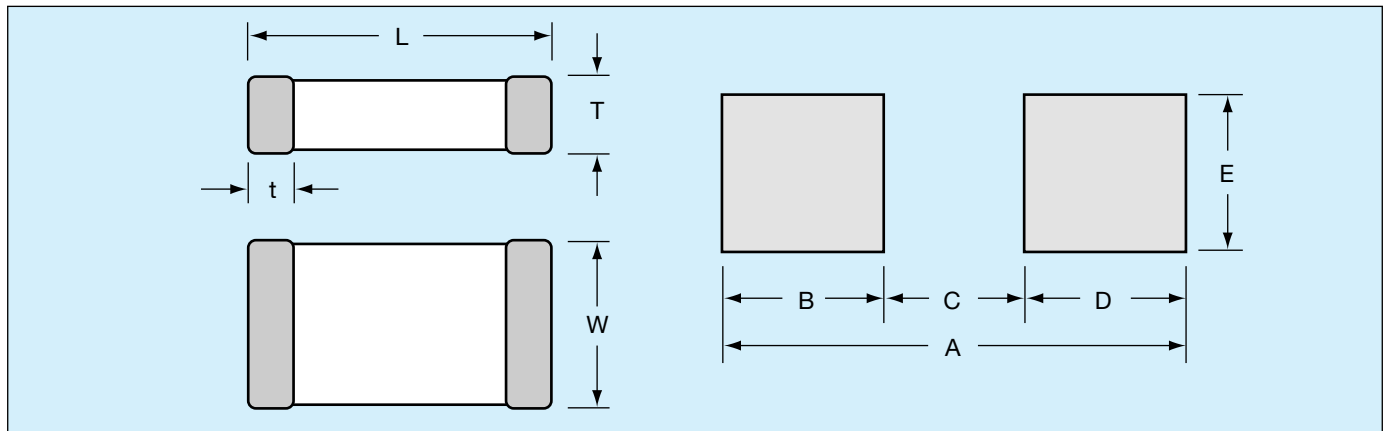
Capacitance pF	Resistance Ohms	Part Number
47	100	Z1D13A470M101KAT1A
68	51	Z1D13A680M510KAT1A
100	47	Z1D13A101M470KAT1A
150	33	Z1D13A151M330KAT1A

PERFORMANCE CHARACTERISTICS

Capacitance Performance Dielectric Capacitor Values Capacitor Tolerance WVDC DF (1kHz) TCC	Near NPO 33, 47, 68, 100, 150 ±20% 25V 2.5% Max. ±250 ppm/°C
Resistor Performance Resistor Values Tolerance TCR	22, 33, 47, 51, 80, 100, 150 ±10% ±250 ppm/°C

IMPEDANCE CHARACTERISTICS





PART DIMENSIONS

	L	W	T	t
Inches	.063±.006	.032±.006	.035 max.	.014±.006
(mm)	(1.6±0.2)	(.81±0.15)	(.90 max.)	(0.35±0.15)

PAD LAYOUT DIMENSIONS

A	B	C	D	E
.090	.030	.030	.030	.030
(2.30)	(0.80)	(0.70)	(0.80)	(0.75)

ASSEMBLY NOTES

AVX recommends a minimum spacing of 0.020" between parts when placing them end to end on assembly boards. The purpose of this spacing is to facilitate post assembly

board cleaning and inaccuracies in pick and placement, due to machine placement tolerances.

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