

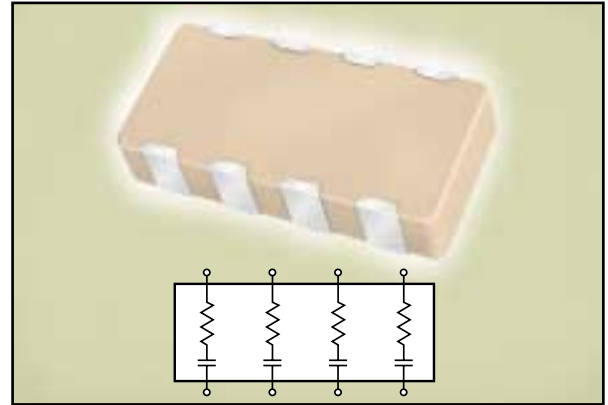
0612 Four Element Series Resistor-Capacitor

GENERAL DESCRIPTION

With the equivalent of 8 components in an 0612 package the IZI Array contains four isolated IZI Chips, a series resistor-capacitor. This makes them ideally suited for applications requiring termination of several lines. The IZI Array enables board designs to: (1) maximize signal integrity by eliminating reflections, (2) reduce DC power consumption by blocking DC current, (3) save PCB real estate and (4) reduce component placement costs.

FEATURES

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



APPLICATIONS

- Line Termination
- Timing Circuits
- Impedance Matching

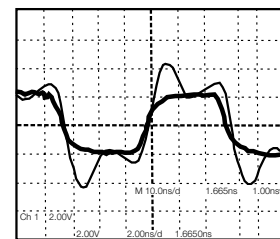
HOW TO ORDER

Z	3	A	4	3	Y	101	M	470	K	A	T	2	A
IZI Chip	Size 3 = 0612	A=Array	Number of Elements	Voltage Code 3 = 25V	Dielectric Y = 0±500 ppm/°C	Capacitor Code	Capacitor Tolerance Code M = ±20%	Resistor Code	Resistor Tolerance Code K = ±10%	Failure Rate A = Not Applicable	Termination Code T = Plated Ni and Solder	Packaging Code 2 = 7" Reel Paper Tape	Special Code A = Standard Product

STANDARD PART VALUES

		Capacitance						
		10pF	15pF	22pF	33pF	47pF	68pF	100pF
Resistance	10 Ω							
	15 Ω							
	22 Ω							
	33 Ω							
	47 Ω					Stock		Stock
	51 Ω						Stock	
	68 Ω							
	100 Ω						Stock	

IZI CHIP TERMINATION OF AN 80 MHz TRANSMISSION LINE

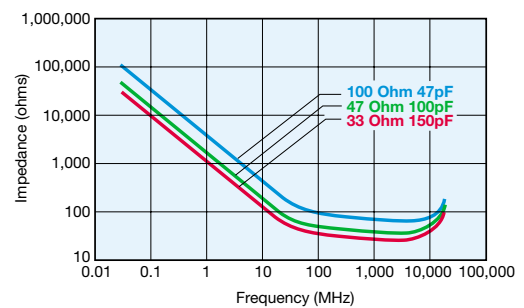


Ringing in an 80 MHz clock pulse (light line) is eliminated when terminated with a 100pF/47 ohm IZI Chip (bold line)

PERFORMANCE CHARACTERISTICS

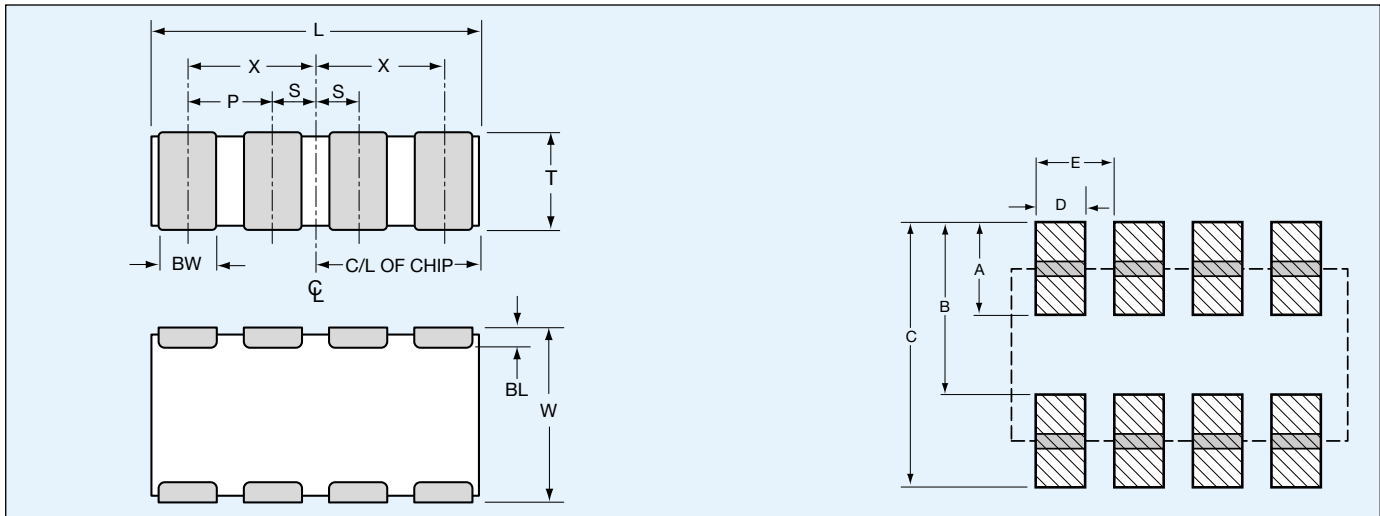
Capacitance Performance Dielectric, TCC Capacitor Values Capacitor Tolerance WVDC DF (1kHz)	0±500 ppm/°C 10, 15, 22, 33, 47, 68, 100 ±20% 25V 2.5% Max.
Resistor Performance Resistor Values Tolerance TCR	10, 15, 22, 33, 47, 68, 100 ±10% ±250 ppm/°C

IMPEDANCE CHARACTERISTICS



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PHYSICAL DIMENSIONS AND PAD LAYOUT



PART DIMENSIONS millimeters (inches)

L	W	T	BW	BL	P	X	S
3.20±0.2 (.126±.008)	1.60±0.2 (.063±.008)	1.22 MAX (.048 MAX)	0.41±0.1 (.016±.004)	0.18 ^{+0.25} _{-0.08} (.007 ^{+0.10} _{-.003})	0.76 REF (.030 REF)	1.14±0.1 (.045±.004)	0.38±0.1 (.015±.004)

PAD LAYOUT DIMENSIONS

A	B	C	D	E
0.89 (.035)	1.65 (.065)	2.54 (.100)	0.46 (.018)	0.79 (.030)

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USA

AVX Myrtle Beach, SC Corporate Offices

Tel: 843-448-9411
FAX: 843-448-1943

AVX Northwest, WA

Tel: 360-669-8746
FAX: 360-699-8751

AVX North Central, IN

Tel: 317-848-7153
FAX: 317-844-9314

AVX Northeast, MA

Tel: 508-485-8114
FAX: 508-485-8471

AVX Mid-Pacific, CA

Tel: 408-436-5400
FAX: 408-437-1500

AVX Southwest, AZ

Tel: 602-539-1496
FAX: 602-539-1501

AVX South Central, TX

Tel: 972-669-1223
FAX: 972-669-2090

AVX Southeast, NC

Tel: 919-878-6357
FAX: 919-878-6462

AVX Canada

Tel: 905-564-8959
FAX: 905-564-9728

EUROPE

AVX Limited, England European Headquarters

Tel: ++44 (0)1252 770000
FAX: ++44 (0)1252 770001

AVX S.A., France

Tel: ++33 (1) 69.18.46.00
FAX: ++33 (1) 69.28.73.87

AVX GmbH, Germany - AVX

Tel: ++49 (0) 8131 9004-0
FAX: ++49 (0) 8131 9004-44

AVX GmbH, Germany - Elco

Tel: ++49 (0) 2741 2990
FAX: ++49 (0) 2741 299133

AVX srl, Italy

Tel: ++390 (0)2 614571
FAX: ++390 (0)2 614 2576

AVX sro, Czech Republic

Tel: ++420 (0)467 558340
FAX: ++420 (0)467 558345

ASIA-PACIFIC

AVX/Kyocera, Singapore Asia-Pacific Headquarters

Tel: (65) 258-2833
FAX: (65) 350-4880

AVX/Kyocera, Hong Kong

Tel: (852) 2-363-3303
FAX: (852) 2-765-8185

AVX/Kyocera, Korea

Tel: (82) 2-785-6504
FAX: (82) 2-784-5411

AVX/Kyocera, Taiwan

Tel: (886) 2-2696-4636
FAX: (886) 2-2696-4237

AVX/Kyocera, China

Tel: (86) 21-6249-0314-16
FAX: (86) 21-6249-0313

AVX/Kyocera, Malaysia

Tel: (60) 4-228-1190
FAX: (60) 4-228-1196

Elco, Japan

Tel: 045-943-2906/7
FAX: 045-943-2910

Kyocera, Japan - AVX

Tel: (81) 75-604-3426
FAX: (81) 75-604-3425

Kyocera, Japan - KDP

Tel: (81) 75-604-3424
FAX: (81) 75-604-3425

