

Capacitor/Resistors

miniReel™
Z Chip

0603 Case Size



Tape width = 8mm

miniReel®
COMPONENTS
A KYOCERA GROUP COMPANY



- Single capacitor/series resistor on one chip
- 0603 case size
- Ideal for pre-production, prototyping and production shortfalls
- Complete with leader tape
- 100mm reel size
- 500 pieces on each reel

Capacitance tolerance	±20%	Resistance tolerance	±10%
Voltage rating	temp. coefficient 0±500ppm/°C	temp. coefficient ±250ppm/°C	25V dc

CAP311

500 Pieces Per Reel

pF	Ω	MiniReel List No.	Order Code	Price Per Reel
1+	3+	5+		
47	100	Z1D13Y470M101KM	355-5306	
68	51	Z1D13Y680M510KM	355-5318	
100	47	Z1D13Y101M470KM	355-5320	

Multilayer Ceramic

Very high capacitance per unit volume makes these suitable for high density PCB applications. The choice in type of ceramic dielectric is selected depending on characteristics and performance required.

NPO/COG (BSI designation 1B)

Exhibits ultra stability in terms of time, temperature, frequency and voltage variations. Typical applications include tuned, timing and fast rise time circuits.

X7R/BX (BSI designation 2C1)

This dielectric offers greater volumetric efficiency whilst maintaining good stability. Typical applications include coupling, decoupling and filtering circuits.

Z5U/Y5V (BSI designation 2F4)

General purpose dielectric offering highest volumetric efficiency. Typical applications include coupling and decoupling circuits or where temperature dependence is not of major importance.

CAP113

0612 Series – Arrays



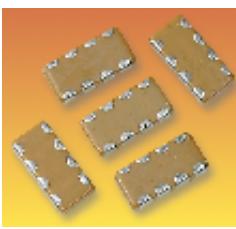
H = 0.8 min 1.2 max, W = 1.6±0.15, D = 3.2±0.15

Phicomp
A FORMER PHILIPS COMPANY



- Four 0603 capacitors of the same value on one array
- Saves placement time and cost, reduced amount of board space needed
- Each individual capacitor element has Nickel barrier termination's for improved solderability
- 4000 per reel

miniReel™
0612 Cap Array



Tape width = 8mm

miniReel®
COMPONENTS
A KYOCERA GROUP COMPANY



- Four 0603 capacitors of the same value on one array
- 0612 case size
- Reduces required board space, saves production time
- Ideal for pre-production, prototyping and production shortfalls
- Complete with leader tape
- 100mm reel size
- 250 pieces on each reel

Performance characteristics	NPO	X7R	Y5V
Operating temperature	-55°C – +125°C	-55°C to +125°C	-25°C to +85°C
Tolerance	±10%	±15% @ 20°C	-
Insulation resistance	100000MΩ min.	-	100000MΩ min.

N.B. For ease of selection, capacitance value is listed in both pF and nF

CAP314

250 Pieces Per Reel	Price Per Reel					
pf	nF	MiniReel. List No.	Order Code	1+	3+	5+

50 Volt d.c. NPO
47 0.047 W3A45A470KA-MR 355-5239
100 0.1 W3A45A101KA-MR 355-5240
150 0.15 W3A45A151KA-MR 355-5252
470 0.47 W3A45A471KA-MR 355-5264

16 Volt d.c. X7R
100000 100 W3A4YC104MA-MR 355-5290

50 Volt d.c. X7R
10000 1 W3A45C102MA-MR 355-5276

continued

Mfrs. List No. 06122CGXXYJ9B200 where XX = capacitance value and Y = multiplier in pF

Order Multiple=10

pF	Order Code	10+	50+	100+	1000+	4000+
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50 Volt d.c. NPO

22 156-693
33 156-700
47 156-711
100 156-723
220 156-735
330 156-747
470 156-759
1000 156-760

Mfrs. List No. 06122RXXYK7B200 where XX = capacitance value and Y = multiplier in pF

Order Multiple=10

pF	Order Code	10+	50+	100+	1000+	4000+
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16 Volt d.c. X7R

10000 335-1865
15000 335-1877
22000 335-1889
33000 335-1890
47000 335-1907
68000 335-1919
100000 335-1920

Capacitance Conversion Table

0.000001μF	=	0.001nF	=	1pF
0.0001μF	=	0.01nF	=	10pF
0.001μF	=	0.1nF	=	100pF
0.01μF	=	1nF	=	1000pF
0.1μF	=	10nF	=	10000pF
1μF	=	100nF	=	100000pF
10μF	=	1000nF	=	1000000pF
100μF	=	10000nF	=	10000000pF
		100000nF	=	100000000pF