

# 0402YU4R7BAT2A Datasheet

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DiGi Electronics Part Number	0402YU4R7BAT2A-DG
Manufacturer	<a href="#">KYOCERA AVX</a>
Manufacturer Product Number	0402YU4R7BAT2A
Description	CAP CER 4.7PF 16V NP0 0402
Detailed Description	4.7 pF $\pm$ 0.1pF 16V Ceramic Capacitor C0G, NP0 0402 (1005 Metric)

This model 0402YU4R7BAT2A is available at DiGi Electronics.

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## Purchase and inquiry

Manufacturer Product Number:

0402YU4R7BAT2A

Series:

U

Capacitance:

4.7 pF

Voltage - Rated:

16V

Operating Temperature:

-55°C ~ 125°C

Ratings:

-

Mounting Type:

Surface Mount, MLCC

Size / Dimension:

0.039" L x 0.020" W (1.00mm x 0.50mm)

Thickness (Max):

0.022" (0.55mm)

Lead Style:

-

Manufacturer:

KYOCERA AVX

Product Status:

Active

Tolerance:

±0.1pF

Temperature Coefficient:

COG, NPO

Features:

Ultra Low ESR

Applications:

RF, Microwave, High Frequency

Package / Case:

0402 (1005 Metric)

Height - Seated (Max):

-

Lead Spacing:

-

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8532.24.0020

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

# RF/Microwave Capacitors

## RF/Microwave C0G (NP0) Capacitors

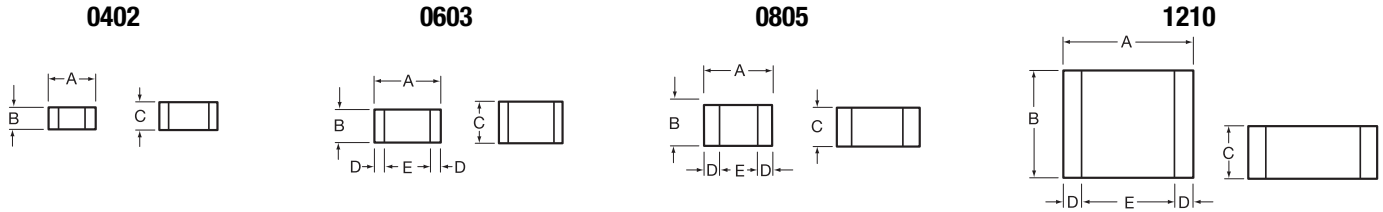
### Ultra Low ESR "U" Series, C0G (NP0) Capacitors (RoHS)



#### GENERAL INFORMATION

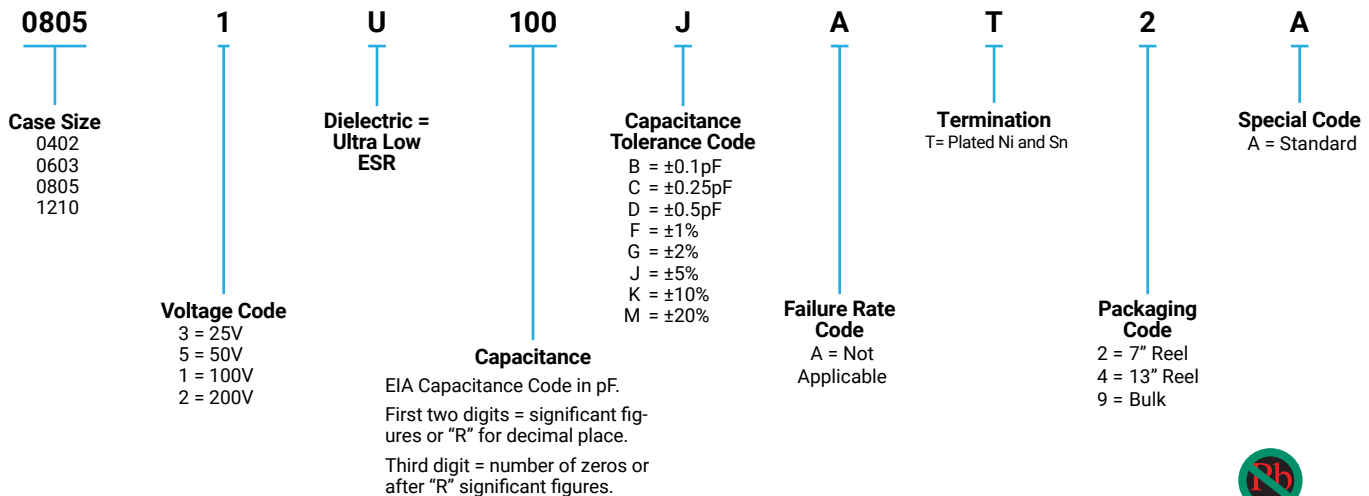
"U" Series capacitors are C0G (NP0) chip capacitors specially designed for "Ultra" low ESR for applications in the communications market. Max ESR and effective capacitance are met on each value producing lot to lot uniformity. Sizes available are EIA chip sizes 0603, 0805, and 1210.

#### DIMENSIONS: inches (millimeters)



Size	A	B	C	D	E
0402	0.039±0.004 (1.00±0.1)	0.020±0.004 (0.50±0.1)	0.024 (0.6) max	0.010 ± 0.006 (0.25 ± 0.15)	0.014 (0.36) min
0603	0.060±0.010 (1.52±0.25)	0.030±0.010 (0.76±0.25)	0.036 (0.91) max	0.010 ± 0.005 (0.25 ± 0.13)	0.030 (0.76) min
0805	0.079±0.008 (2.01±0.2)	0.049±0.008 (1.25±0.2)	0.045 (1.15mm) max	0.020 ± 0.010 (0.51 ± 0.254)	0.020 (0.51) min
1210	0.126±0.008 (3.2±0.2)	0.098±0.008 (2.49±0.2)	0.055 (1.40mm) max	0.025 ± 0.015 (0.635 ± 0.381)	0.040 (1.02) min

#### HOW TO ORDER



#### ELECTRICAL CHARACTERISTICS

##### Capacitance Values and Tolerances:

Size 0402 - 0.2 pF to 22 pF @ 1 MHz  
Size 0603 - 1.0 pF to 100 pF @ 1 MHz  
Size 0805 - 1.6 pF to 160 pF @ 1 MHz  
Size 1210 - 2.4 pF to 1000 pF @ 1 MHz

##### Temperature Coefficient of Capacitance (TC):

0±30 ppm/°C (-55° to +125°C)

##### Insulation Resistance (IR):

10<sup>12</sup> Ω min. @ 25°C and rated WVDC  
10<sup>11</sup> Ω min. @ 125°C and rated WVDC

##### Working Voltage (WVDC):

Size	Working Voltage
0402	- 50, 25 WVDC
0603	- 200, 100, 50 WVDC
0805	- 200, 100 WVDC
1210	- 200, 100 WVDC

##### Dielectric Working Voltage (DWV):

250% of rated WVDC

##### Equivalent Series Resistance Typical (ESR):

0402 - See Performance Curve, page 300  
0603 - See Performance Curve, page 300  
0805 - See Performance Curve, page 300  
1210 - See Performance Curve, page 300

##### Marking

Laser marking EIA J marking standard (except 0603) (capacitance code and tolerance upon request).





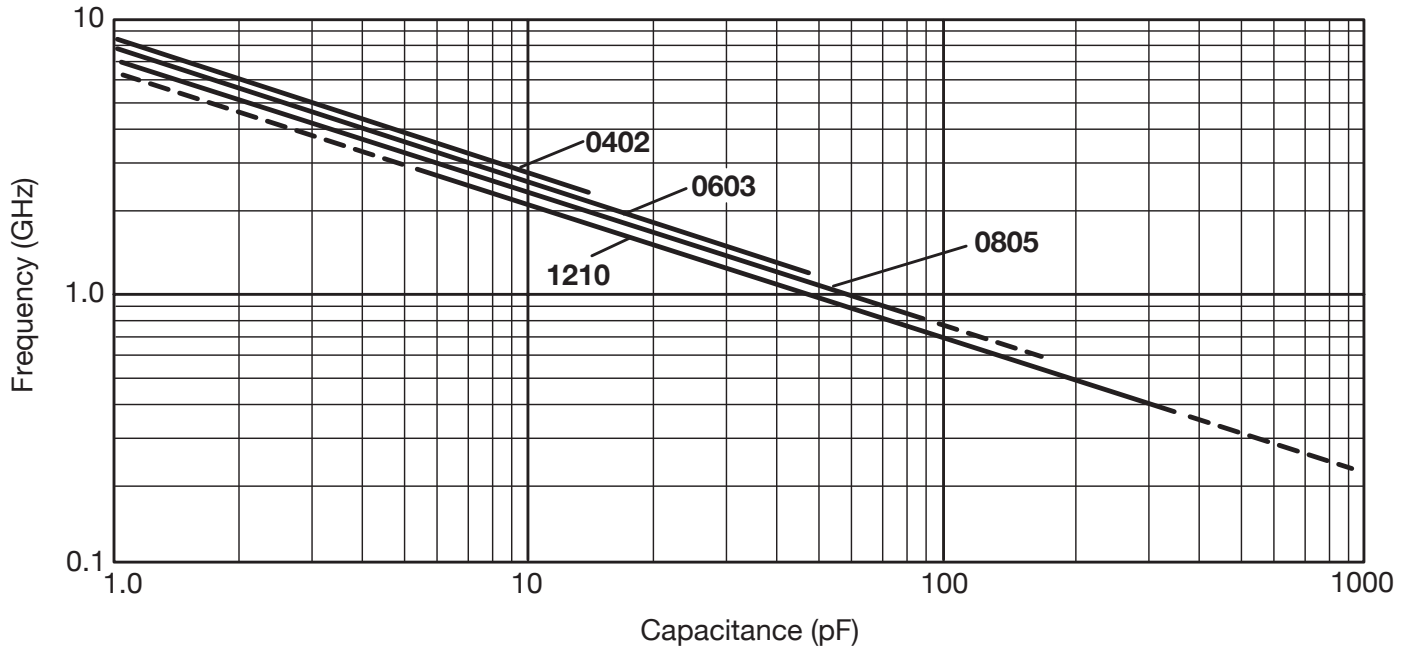
# RF/Microwave Capacitors

## RF/Microwave C0G (NP0) Capacitors

### Ultra Low ESR "U" Series, C0G (NP0) Capacitors (RoHS)



#### TYPICAL SERIES RESONANT FREQUENCY "U" SERIES CHIP



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