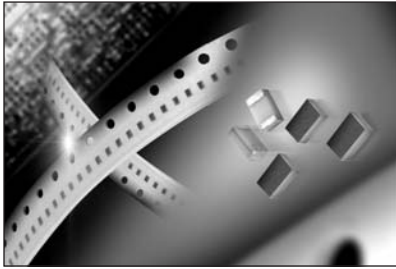


Accu-P RF Capacitors

Thin Film Low ESR High Q Capacitors



As in the Accu-F® series the use of very low-loss dielectric materials (silicon dioxide and silicon oxynitride) in conjunction with highly conductive electrode metals results in low ESR and high Q. At high frequency these characteristics change at a slower rate with increasing frequency than conventional ceramic microwave capacitors. Using thin-film technology, the above-mentioned frequency characteristics are obtained without significant compromise of properties required for surface mounting. The use of high thermal conductivity materials results in excellent RF power handling capabilities.



Check for up-to-date CV Tables at
<http://www.avx.com/docs/catalogs/accuf-p.pdf>

HOW TO ORDER

0402

Size
 0201
 0402
 0603
 0805
 1210

3

Voltage
 1 = 100V
 5 = 50V
 3 = 25V
 Y = 16V
 Z = 10V

J

Temperature Coefficient (1)
 J = $0 \pm 30 \text{ ppm}/^\circ\text{C}$
 (-55°C to +125°C)
 K = $0 \pm 60 \text{ ppm}/^\circ\text{C}$
 (-55°C to +125°C)

4R7

Capacitance
 Capacitance expressed in pF.
 (2 significant digits + number of zeros)
for values <10pF,
 letter R denotes decimal point.
 Example:
 68pF = 680
 8.2pF = 8R2

A

Tolerance for $C \leq 2.0 \text{ pF}$ *
 P = $\pm 0.02 \text{ pF}$
 Q = $\pm 0.03 \text{ pF}$
 A = $\pm 0.05 \text{ pF}$
 B = $\pm 0.1 \text{ pF}$
 C = $\pm 0.25 \text{ pF}$
for $C \leq 3.0 \text{ pF}$
 Q = $\pm 0.03 \text{ pF}$
 A = $\pm 0.05 \text{ pF}$
 B = $\pm 0.1 \text{ pF}$
 C = $\pm 0.25 \text{ pF}$
for $C \leq 5.6 \text{ pF}$
 A = $\pm 0.05 \text{ pF}$
 B = $\pm 0.1 \text{ pF}$
 C = $\pm 0.25 \text{ pF}$

Tolerance for $5.6 \text{ pF} < C < 10 \text{ pF}$
 B = $\pm 0.1 \text{ pF}$
 C = $\pm 0.25 \text{ pF}$
 D = $\pm 0.5 \text{ pF}$
for $C \geq 10 \text{ pF}$
 F = $\pm 1\%$
 G = $\pm 2\%$
 J = $\pm 5\%$

B

Specification Code
 B = Accu-P® technology

S

Termination Code
 W = Nickel/Solder Coated
Accu-P® 0201 & 0402
 Sn90, Pb10
 T = Nickel/High Temperature Solder Coated
Accu-P® 0603, 0805, 1210****
 Sn96, Ag4
 **S = Nickel/Lead Free Solder Coated
Accu-P® 0201, 0402, 0603
 Sn100

TR

Packaging Code
 TR = Tape and Reel

(1) TC's shown are per EIA/IEC Specifications.

* Tolerances as tight as $\pm 0.01 \text{ pF}$ are available. Please consult the factory.

**RoHS compliant

TEMP. COEFFICIENT CODE: "J" = $0 \pm 30 \text{ ppm}/^\circ\text{C}$ (-55°C to +125°C)⁽¹⁾

Size Code	0201	0402	0603	0805	1210
Voltage	25	16	10	25	100
Cap in pF ⁽¹⁾	Cap code				
0.1	0R1				
0.2	0R2				
0.3	0R3				
0.4	0R4				
0.5	0R5				
0.6	0R6				
0.7	0R7				
0.8	0R8				
0.9	0R9				
1.0	1R0				
1.1	1R1				
1.2	1R2				
1.3	1R3				
1.4	1R4				
1.5	1R5				
1.6	1R6				
1.7	1R7				
1.8	1R8				
1.9	1R9				
2.0	2R0				
2.1	2R1				
2.2	2R2				
2.3	2R3				
2.4	2R4				
2.5	2R5				
2.6	2R6				
2.7	2R7				
2.8	2R8				
2.9	2R9				
3.0	3R0				
3.1	3R1				
3.2	3R2				
3.3	3R3				
3.4	3R4				
3.5	3R5				
3.6	3R6				
3.7	3R7				
3.8	3R8				
3.9	3R9				
4.0	4R0				
4.1	4R1				
4.2	4R2				
4.3	4R3				
4.4	4R4				
4.5	4R5				
4.6	4R6				
4.7	4R7				
5.1	5R1				
5.6	5R6				
6.2	6R2				
6.8	6R8				
7.5	7R5				
8.2	8R2				
9.1	9R1				
10.0	100				
11.0	110				
12.0	120				
13.0	130				
14.0	140				
15.0	150				
16.0	160				
17.0	170				
18.0	180				
22.0	220				
24.0	240				
27.0	270				
30.0	300				
33.0	330				
39.0	390				
47.0	470				
56.0	560				
68.0	680				

TEMP. COEFFICIENT CODE "K" = $0 \pm 60 \text{ ppm}/^\circ\text{C}$ (-55°C to +125°C)⁽²⁾

Size Code	0805	1210
Voltage	100	50
Cap in pF ⁽¹⁾	Cap code	
0.1	0R1	
0.2	0R2	
0.3	0R3	
0.4	0R4	
0.5	0R5	
0.6	0R6	
0.7	0R7	
0.8	0R8	
0.9	0R9	
1.0	1R0	
1.1	1R1	
1.2	1R2	
1.3	1R3	
1.4	1R4	
1.5	1R5	
1.6	1R6	
1.7	1R7	
1.8	1R8	
1.9	1R9	
2.0	2R0	
2.1	2R1	
2.2	2R2	
2.3	2R3	
2.4	2R4	
2.5	2R5	
2.6	2R6	
2.7	2R7	
2.8	2R8	
2.9	2R9	
3.0	3R0	
3.1	3R1	
3.2	3R2	
3.3	3R3	
3.4	3R4	
3.5	3R5	
3.6	3R6	
3.7	3R7	
3.8	3R8	
3.9	3R9	
4.0	4R0	
4.1	4R1	
4.2	4R2	
4.3	4R3	
4.4	4R4	
4.5	4R5	
4.6	4R6	
4.7	4R7	
5.1	5R1	
5.6	5R6	
6.2	6R2	
6.8	6R8	
7.5	7R5	
8.2	8R2	
9.1	9R1	
10.0	100	
11.0	110	
12.0	120	
13.0	130	
14.0	140	
15.0	150	
16.0	160	
17.0	170	
18.0	180	
22.0	220	
24.0	240	
27.0	270	
30.0	300	
33.0	330	
39.0	390	
47.0	470	
56.0	560	
68.0	680	

(1) For capacitance values higher than listed in table, please consult factory.
 (2) TC shown is per EIA/IEC Specifications.
 (3) For 50 volt range, please consult factory.
 (4) These values are produced with "K" temperature coefficient code only.



Intermediate values are available within the indicated range.