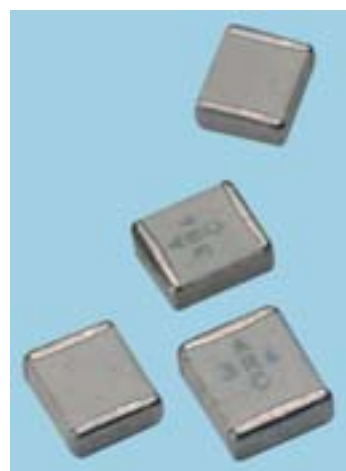


**RF/Microwave Ceramics**

**RF/Microwave Ceramic Capacitors**

**U Series**



U Series capacitors are COG (NPO) 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.



**NEW**



**Tolerance**  
B = ±0.1pF  
C = ±0.25pF  
G = ±2%  
J = ±5%

**Temperature coefficient**  
0±30ppm/°C

**Insulation resistance**  
10<sup>12</sup>Ωmin. @ 25°C and WVDC

**Dielectric working voltage**  
250% of rated WVDC

**Dimensions (LxWxH)**  
0402: 1 x 0.50 x 0.6mm  
0603: 1.52 x 0.76 x 0.91mm  
0805: 2.01 x 1.25 x 1.02mm

**0402 Case Size**

Order Multiple = 5  
50 Volt d.c. COG 0402 Case Size

pF	Mftrs. List No.	Order Code	5+	50+	100+	500+	+
0.5	04025U0R5BAT2A	756-7995	9.00	8.00	7.00	6.00	--
1	04025U1R0BAT2A	756-8002	9.00	8.00	7.00	6.00	--
1.5	04025U1R5BAT2A	756-8010	9.00	8.00	7.00	6.00	--
1.8	04025U1R8BAT2A	756-8029	9.00	8.00	7.00	6.00	--
2.2	04025U2R2BAT2A	756-8037	9.00	8.00	7.00	6.00	--
2.4	04025U2R4BAT2A	756-8045	9.00	8.00	7.00	6.00	--
3	04025U3R0BAT2A	756-8053	9.00	8.00	7.00	6.00	--
3.6	04025U3R6BAT2A	756-8061	9.00	8.00	7.00	6.00	--
4.7	04025U4R7CAT2A	756-8070	8.00	7.00	6.00	5.00	--
5.6	04025U5R6CAT2A	756-8088	8.00	7.00	6.00	5.00	--
6.8	04025U6R8CAT2A	756-8100	8.00	7.00	6.00	5.00	--
8.2	04025U8R2CAT2A	756-8118	8.00	7.00	6.00	5.00	--
10	04025U100GAT2A	756-8126	9.00	8.00	7.00	6.00	--
12	04025U120GAT2A	756-8134	9.00	8.00	7.00	6.00	--
15	04025U150GAT2A	756-8142	9.00	8.00	7.00	6.00	--

**0603 Case Size**

Order Multiple = 5  
200 Volt d.c. COG 0603 Case Size

pF	Mftrs. List No.	Order Code	5+	50+	100+	500+	+
1	06032U1R0BAT2A	756-8150	19.00	17.00	15.00	12.00	--
1.2	06032U1R2BAT2A	756-8169	19.00	17.00	15.00	12.00	--
1.5	06032U1R5BAT2A	756-8177	19.00	17.00	15.00	12.00	--
1.8	06032U1R8BAT2A	756-8185	19.00	17.00	15.00	12.00	--
2	06032U2R0BAT2A	756-8193	19.00	17.00	15.00	12.00	--
2.4	06032U2R4BAT2A	756-8207	19.00	17.00	15.00	12.00	--
2.7	06032U2R7BAT2A	756-8215	19.00	17.00	15.00	12.00	--
3	06032U3R0BAT2A	756-8223	19.00	17.00	15.00	12.00	--
3.3	06032U3R3BAT2A	756-8231	19.00	17.00	15.00	12.00	--
3.9	06032U3R9BAT2A	756-8240	19.00	17.00	15.00	12.00	--
4.7	06032U4R7CAT2A	756-8258	14.00	12.00	10.00	9.00	--
5.6	06032U5R6CAT2A	756-8266	14.00	12.00	10.00	9.00	--
6.8	06032U6R8CAT2A	756-8274	14.00	12.00	10.00	9.00	--
7.5	06032U7R5CAT2A	756-8282	14.00	12.00	10.00	9.00	--
8.2	06032U8R2CAT2A	756-8290	14.00	12.00	10.00	9.00	--
10	06032U100GAT2A	756-8304	14.00	12.00	10.00	9.00	--
12	06032U120GAT2A	756-8312	14.00	12.00	10.00	9.00	--
15	06032U150GAT2A	756-8320	14.00	12.00	10.00	9.00	--
18	06032U180GAT2A	756-8339	14.00	12.00	10.00	9.00	--

Order Multiple = 5  
100 Volt d.c. COG 0603 Case Size

pF	Mftrs. List No.	Order Code	5+	50+	100+	500+	+
22	06031U220GAT2A	756-8347	14.00	12.00	10.00	9.00	--
27	06031U270GAT2A	756-8355	14.00	12.00	10.00	9.00	--
33	06031U330GAT2A	756-8363	14.00	12.00	10.00	9.00	--
39	06031U390GAT2A	756-8371	14.00	12.00	10.00	9.00	--
47	06031U470JAT2A	756-8380	11.00	10.00	9.00	8.00	--

**0805 Case Size**

388599

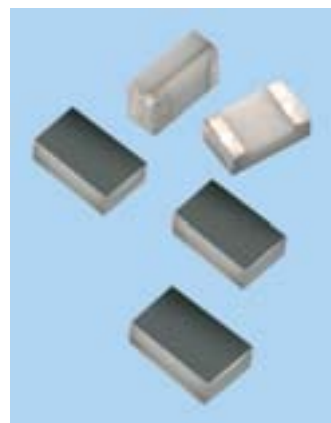
Order Multiple = 5

200 Volt d.c. COG 0805 Case Size

pF	Mftrs. List No.	Order Code	5+	50+	100+	500+	+
1	08052U1R0BAT2A	756-8398	23.00	20.00	18.00	15.00	--
1.5	08052U1R5BAT2A	756-8401	23.00	20.00	18.00	15.00	--
2.2	08052U2R2BAT2A	756-8410	23.00	20.00	18.00	15.00	--
2.4	08052U2R4BAT2A	756-8428	23.00	20.00	18.00	15.00	--
2.7	08052U2R7BAT2A	756-8436	23.00	20.00	18.00	15.00	--
3	08052U3R0BAT2A	756-8444	23.00	20.00	18.00	15.00	--
3.3	08052U3R3BAT2A	756-8452	23.00	20.00	18.00	15.00	--
3.9	08052U3R9BAT2A	756-8460	23.00	20.00	18.00	15.00	--
4.7	08052U4R7CAT2A	756-8479	16.00	14.00	12.00	10.00	--
5.6	08052U5R6CAT2A	756-8487	16.00	14.00	12.00	10.00	--
7.5	08052U7R5CAT2A	756-8495	16.00	14.00	12.00	10.00	--
8.2	08052U8R2CAT2A	756-8509	16.00	14.00	12.00	10.00	--
9.1	08052U9R1CAT2A	756-8517	16.00	14.00	12.00	10.00	--
10	08052U100GAT2A	756-8525	16.00	14.00	12.00	10.00	--
12	08052U120GAT2A	756-8533	16.00	14.00	12.00	10.00	--
15	08052U150GAT2A	756-8541	16.00	14.00	12.00	10.00	--
18	08052U180GAT2A	756-8550	16.00	14.00	12.00	10.00	--
22	08052U220GAT2A	756-8568	16.00	14.00	12.00	10.00	--
24	08052U240GAT2A	756-8576	16.00	14.00	12.00	10.00	--
27	08052U270GAT2A	756-8584	16.00	14.00	12.00	10.00	--
33	08052U330GAT2A	756-8592	16.00	14.00	12.00	10.00	--
36	08052U360GAT2A	756-8606	16.00	14.00	12.00	10.00	--
39	08052U390GAT2A	756-8614	16.00	14.00	12.00	10.00	--
47	08052U470JAT2A	756-8622	15.00	13.00	11.00	10.00	--
56	08052U560JAT2A	756-8630	15.00	13.00	11.00	10.00	--
68	08052U680JAT2A	756-8649	15.00	13.00	11.00	10.00	--
82	08052U820JAT2A	756-8657	15.00	13.00	11.00	10.00	--
100	08052U101JAT2A	756-8665	15.00	13.00	11.00	10.00	--
130	08052U131JAT2A	756-8673	15.00	13.00	11.00	10.00	--
160	08052U161JAT2A	756-8681	15.00	13.00	11.00	10.00	--

**RF/Microwave Capacitors**

**ACCU-P®**



H=0.40 W=1.00 D=0.55mm

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.

- Low ESR, high Q, availability of very low capacitance values and very tight capacitance tolerances
- The RF power handling capability allows for its usage in both small signal and RF power applications
- Inspection, test and quality control procedures in accordance with ISO 9001, CECC, IECQ and USA MIL Standards guarantee product of the highest quality
- Minimal batch to batch variability of parameters at high frequency
- Hand soldering: Due to their construction utilizing relatively high thermal conductivity materials, Accu-Ps have become the preferred device in R & D labs and production environments where hand soldering is used

Operating and storage temperature -55°C to +125°C Proof voltage 2.5 U<sub>R</sub> for 5 secs  
 Temperature coefficient 0 ±30ppm/°C dielectric code J Aging characteristic Zero  
 Capacitance measurement 1MHz, 1Vrms Dielectric absorption 0.01%  
 Insulation resistance ≥10<sup>10</sup>

**0402 Case Size**

388600

Capacitance (pF)	Mftrs. List No.	Order Code	1+	50+	100+	500+	+
<b>25 Volt d.c.</b>							
0.1	04023J0R1ABSTR	110-0607	52.00	45.00	39.00	33.00	--
0.2	04023J0R2ABSTR	110-0608	52.00	45.00	39.00	33.00	--
0.3	04023J0R3ABSTR	110-0611	52.00	45.00	39.00	33.00	--
0.4	04023J0R4ABSTR	110-0612	52.00	45.00	39.00	33.00	--
0.5	04023J0R5ABSTR	110-0613	52.00	45.00	39.00	33.00	--
0.6	04023J0R6ABSTR	110-0614	52.00	45.00	39.00	33.00	--
0.7	04023J0R7ABSTR	110-0615	52.00	45.00	39.00	33.00	--
0.8	04023J0R8ABSTR	110-0616	52.00	45.00	39.00	33.00	--
0.9	04023J0R9ABSTR	110-0617	52.00	45.00	39.00	33.00	--
1.2	04023J1R2BBSTR	110-0618	34.00	29.00	26.00	22.00	--
1.5	04023J1R5BBSTR	110-0619	34.00	29.00	26.00	22.00	--
1.8	04023J1R8BBSTR	110-0620	34.00	29.00	26.00	22.00	--
2.2	04023J2R2BBSTR	110-0621	34.00	29.00	26.00	22.00	--
2.7	04023J2R7BBSTR	110-0623	34.00	29.00	26.00	22.00	--
3.3	04023J3R3BBSTR	110-0624	34.00	29.00	26.00	22.00	--
3.9	04023J3R9BBSTR	110-0625	34.00	29.00	26.00	22.00	--
4.7	04023J4R7BBSTR	110-0626	34.00	29.00	26.00	22.00	--
5.6	04023J5R6BBSTR	110-0627	34.00	29.00	26.00	22.00	--
6.8	04023J6R8BBSTR	110-0628	34.00	29.00	26.00	22.00	--

Capacitors

15

Compliant  
 Non-compliant  
 + Limited stock - RoHS replacement available  
**RoHS**