AVX SMD FLEXITERM™ Ceramic Capacitors, Soft Termination

A KYOCERA GROUP COMPANY

MLCC WITH SOFT TERMINATION

For quantities of 8000 and up, call for quote.

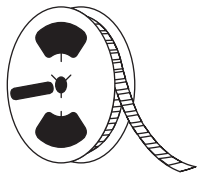
MOUSER STOCK NO.	AVX Part Number	Value	Volt	Tol. ±	Price Each 1	100	500	1000	Reel Qty 4000
0603 Style									
581-06035C331JAZ2A	06035C331JAZ2A	330pF	50	5%	.36	.24	.13	.10	.08
581-06031C331JAZ2A	06031C331JAZ2A	330pF	100	5%	.38	.25	.14	.11	.09
581-06035C471JAZ2A	06035C471JAZ2A	470pF	50	5%	.36	.24	.13	.10	.08
581-06031C471JAZ2A	06031C471JAZ2A	470pF	100	5%	.38	.25	.14	.11	.09
581-06031C681JAZ2A	06031C681JAZ2A	680pF	100	5%	.38	.25	.14	.11	.09
581-06031C821JAZ2A	06031C821JAZ2A	820pF	100	5%	.38	.25	.14	.11	.09
581-06035C102JAZ2A	06035C102JAZ2A	1000pF	50	5%	.36	.24	.13	.10	.08
581-06031C102JAZ2A	06031C102JAZ2A	1000pF	100	5%	.38	.25	.14	.11	.09
581-06031C122JAZ2A	06031C122JAZ2A	1200pF	100	5%	.38	.25	.14	.11	.09
581-06031C152JAZ2A	06031C152JAZ2A	1500pF	100	5%	.38	.25	.14	.11	.09
581-06035C222JAZ2A	06035C222JAZ2A	2200pF	50	5%	.36	.24	.13	.10	.08
581-06031C222JAZ2A	06031C222JAZ2A	2200pF	100	5%	.38	.25	.14	.11	.09
581-06035C332JAZ2A	06035C332JAZ2A	3300pF	50	5%	.36	.24	.13	.10	.08
581-06031C332JAZ2A	06031C332JAZ2A	3300pF	100	5%	.38	.25	.14	.11	.09
581-0603YC472JAZ2A	0603YC472JAZ2A	4700pF	16	5%	.36	.24	.13	.10	.08
581-06033C472JAZ2A	06033C472JAZ2A	4700pF	25	5%	.36	.24	.13	.10	.08
581-06035C472JAZ2A	06035C472JAZ2A	4700pF	50	5%	.36	.24	.13	.10	.08
581-06031C472JAZ2A	06031C472JAZ2A	4700pF	100	5%	.38	.25	.14	.11	.09
581-06033C682JAZ2A	06033C682JAZ2A	6800pF	25	5%	.38	.25	.14	.11	.09
581-06031C822JAZ2A	06031C822JAZ2A	8200pF	100	5%	.38	.25	.14	.11	.09
581-06035C103JAZ2A	06035C103JAZ2A	0.01µF	50	5%	.36	.24	.13	.10	.08
581-06031C103JAZ2A	06031C103JAZ2A	0.01µF	100	5%	.38	.25	.14	.11	.09
581-06035C223JAZ2A	06035C223JAZ2A	0.022µF	50	5%	.49	.32	.18	.14	.12
581-0603YC473JAZ2A	0603YC473JAZ2A	0.047µF	16	5%	.56	.37	.20	.16	.13
581-06033C473JAZ2A	06033C473JAZ2A	0.047µF	25	5%	.84	.55	.30	.24	.19
581-0603YC104JAZ2A	0603YC104JAZ2A	0.1µF	16	5%	.63	.41	.23	.18	.15
0505 Style									
581-0805ZC331JAZ2A	0805ZC331JAZ2A	330pF	10	5%	.35	.24	.12	.10	.09
581-08053C331JAZ2A	08053C331JAZ2A	330pF	25	5%	.37	.25	.13	.11	.095
581-08055C331JAZ2A	08055C331JAZ2A	330pF	50	5%	.41	.27	.15	.12	.10
581-08053C471JAZ2A	08053C471JAZ2A	470pF	25	5%	.37	.25	.13	.11	.095
581-08055C471JAZ2A	08055C471JAZ2A	470pF	50	5%	.41	.27	.15	.12	.10
581-08053C102JAZ2A	08053C102JAZ2A	1000pF	25	5%	.37	.25	.13	.11	.095
581-08055C102JAZ2A	08055C102JAZ2A	1000pF	50	5%	.41	.27	.15	.12	.10
581-08055C122JAZ2A	08055C122JAZ2A	1200pF	50	5%	.41	.27	.15	.12	.10
581-08055C222JAZ2A	08055C222JAZ2A	2200pF	50	5%	.41	.27	.15	.12	.10
581-08055C332JAZ2A	08055C332JAZ2A	3300pF	50	5%	.41	.27	.15	.12	.10
581-0805ZC472JAZ2A	0805ZC472JAZ2A	4700pF	10	5%	.35	.24	.12	.10	.09
581-08053C472JAZ2A	08053C472JAZ2A	4700pF	25	5%	.37	.25	.13	.11	.095
581-08055C472JAZ2A	08055C472JAZ2A	4700pF	50	5%	.41	.27	.15	.12	.10
581-08053C103JAZ2A	08053C103JAZ2A	0.01µF	25	5%	.37	.25	.13	.11	.095
581-08055C103JAZ2A	08055C103JAZ2A	0.01µF	50	5%	.41	.27	.15	.12	.10
581-08055C123JAZ2A	08055C123JAZ2A	0.012µF	50	5%	.47	.31	.17	.13	.11
581-08055C223JAZ2A	08055C223JAZ2A	0.022µF	50	5%	.47	.31	.17	.13	.11
581-08055C333JAZ2A	08055C333JAZ2A	0.033µF	50	5%	.47	.31	.17	.13	.11
581-0805ZC473JAZ2A	0805ZC473JAZ2A	0.047µF	10	5%	.35	.24	.12	.10	.09
581-08053C473JAZ2A	08053C473JAZ2A	0.047µF	25	5%	.37	.25	.13	.11	.095
581-08055C473JAZ2A	08055C473JAZ2A	0.047µF	50	5%	.47	.31	.17	.13	.11
581-08056C104JAZ2A	08056C104JAZ2A	0.1µF	6.3	5%	.34	.23	.115	.095	.08
581-0805ZC104JAZ2A	0805ZC104JAZ2A	0.1µF	10	5%	.35	.24	.12	.10	.09
581-08053C104JAZ2A	08053C104JAZ2A	0.1µF	25	5%	.37	.25	.13	.11	.095
581-08055C104JAZ2A	08055C104JAZ2A	0.1µF	50	5%	.47	.31	.17	.13	.11
1206 Style									
581-12063C102JAZ2A	12063C102JAZ2A	1000pF	25	5%	.39	.27	.14	.10	.09
581-12065C102JAZ2A	12065C102JAZ2A	1000pF	50	5%	.41	.28	.15	.115	.096
581-12061C102JAZ2A	12061C102JAZ2A	1000pF	100	5%	.44	.29	.16	.12	.10
581-12065C122JAZ2A	12065C122JAZ2A	1200pF	50	5%	.41	.28	.15	.115	.096
581-12061C122JAZ2A	12061C122JAZ2A	1200pF	100	5%	.44	.29	.16	.12	.10
581-12065C222JAZ2A	12065C222JAZ2A	2200pF	50	5%	.41	.28	.15	.115	.096
581-12061C222JAZ2A	12061C222JAZ2A	2200pF	100	5%	.44	.29	.16	.12	.10
581-12061C332JAZ2A	12061C332JAZ2A	3300pF	100	5%	.44	.29	.16	.12	.10
581-12065C472JAZ2A	12065C472JAZ2A	4700pF	50	5%	.47	.28	.15	.115	.096
581-12061C472JAZ2A	12061C472JAZ2A	4700pF	100	5%	.44	.29	.16	.12	.10
581-12061C682JAZ2A	12061C682JAZ2A	6800pF	100	5%	.44	.29	.16	.12	.10
581-12061C822JAZ2A	12061C822JAZ2A	8200pF	100	5%	.44	.29	.16	.12	.10
581-12063C103JAZ2A	12063C103JAZ2A	0.01µF	25	5%	.39	.27	.14	.10	.09
581-12065C103JAZ2A	12065C103JAZ2A	0.01µF	50	5%	.41	.28	.15	.115	.096
581-12061C103JAZ2A	12061C103JAZ2A	0.01µF	100	5%	.44	.29	.16	.12	.10
581-12065C223JAZ2A	12065C223JAZ2A	0.022µF	50	5%	.48	.32	.17	.13	.11
581-12061C223JAZ2A	12061C223JAZ2A	0.022µF	100	5%	.51	.33	.18	.14	.12
581-12063C333JAZ2A	12063C333JAZ2A	0.033µF	25	5%	.46	.30	.15	.11	.105
581-12065C333JAZ2A	12065C333JAZ2A	0.033µF	50	5%	.48	.32	.17	.13	.11
581-12061C333JAZ2A	12061C333JAZ2A	0.033µF	100	5%	.51	.33	.18	.14	.12
581-1206YC473JAZ2A	1206YC473JAZ2A	0.047µF	16	5%	.46	.30	.15	.11	.105
581-12063C473JAZ2A	12063C473JAZ2A	0.047µF	25	5%	.48	.32	.17	.13	.11
581-12065C473JAZ2A	12065C473JAZ2A	0.047µF	50	5%	.51	.33	.18	.14	.12
581-12061C473MAZ2A	12061C473MAZ2A	0.047µF	100	20%	.42	.28	.15	.12	.10
581-12061C683MAZ2A	12061C683MAZ2A	0.068µF	100	20%	.45	.30	.16	.13	.11
581-1206YC104JAZ2A	1206YC104JAZ2A	0.1µF	16	5%	.44	.30	.15	.12	.10
581-12063C104JAZ2A	12063C104JAZ2A	0.1µF	25	5%	.47	.31	.16	.13	.11
581-12065C104JAZ2A	12065C104JAZ2A	0.1µF	50	5%	.49	.32	.18	.14	.12
581-12065C224MAZ2A	12065C224MAZ2A	0.22µF	50	20%	.69	.45	.25	.19	.16
581-12063C334MAZ2A	12063C334MAZ2A	0.33µF	25	20%	.79	.51	.28	.22	.18
581-12063C474MAZ2A	12063C474MAZ2A	0.47µF	25	20%	.79	.51	.28	.22	.18
581-1206YC105MAZ2A	1206YC105MAZ2A	1µF	16	20%	1.39	.91	.49	.39	.32
1210 Style									
581-12101C223KAZ2A	12101C223KAZ2A	0.022µF	100	10%	.70	.46	.25	.20	.16
581-12101C333KAZ2A	12101C333KAZ2A	0.033µF	100	10%	.70	.46	.25	.20	.16
581-12101C473KAZ2A	12101C473KAZ2A	0.047µF	100	10%	.70	.46	.25	.20	.16
581-12101C683MAZ2A	12101C683MAZ2A	0.068µF	100	20%	.70	.46	.25	.20	.16
581-12101C823MAZ2A	12101C823MAZ2A	0.082µF	100	20%	.70	.46	.25	.20	.16
581-12103C104KAZ2A	12103C104KAZ2A	0.1µF	25	10%	.63	.41	.21	.18	.149
581-12105C104KAZ2A	12105C104KAZ2A	0.1µF	50	10%	.66	.43	.24	.19	.15
581-12103C224MAZ2A	12103C224MAZ2A	0.22µF	25	20%	.84	.55	.30	.24	.19
581-12105C224MAZ2A	12105C224MAZ2A	0.22µF	50	20%	.87	.57	.31	.24	.20

RoHS Compliant

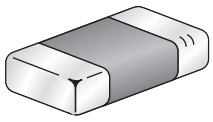
With increased requirements from the automotive industry for additional component robustness, AVX recognized the need to produce a MLCC with enhanced mechanical strength. It was noted that many components may be subject to severe flexing and vibration when used in various under the bonnet automotive applications.

To satisfy the requirement for enhanced mechanical strength, AVX had to find a way of ensuring that electrical integrity is maintained while external forces are being applied to the component. This soft termination is designed to enhance the mechanical flexure and temperature cycling performance of a standard ceramic capacitor with an X7R dielectric.

In addition to automotive applications, it also provides Design Engineers with a satisfactory solution when designing PCB's which may be subject to high levels for board flexure.



4000 Piece Reels



Dimensions:
Standard EIA Case

Product Advantages:

- High mechanical performance able to withstand, 5mm bend test guaranteed.
- Open failure mode is apparent when products are overstressed by 5mm.
- Increased temperature cycling performance, 3000 cycles and beyond.
- Flexible termination system.
- Reduction in circuit board flex failures.
- Base metal electrode system.
- Automotive or commercial grade products available.
- Temperature Range: -55°C to +125°C

The industry standard for flexure is 2 mm minimum with Soft Termination. AVX guarantees a minimum flexure of 5 mm, without any internal cracks. Beyond 5mm generally the component will open. The industry standard for temperature cycling is 1000 cycles, AVX guarantees 3000 cycles.

Applications:

High Flexure Stress Circuit Boards

- e.g. Depanelization: Components near edges of board.

Variable Temperature Applications

- Soft termination offers improved reliability performances in applications where there is temperature variation.
- e.g. All kind of engine sensors: Direct connection to battery rail.

Automotive Applications

- Improved reliability.
- Excellent mechanical performance and thermo-mechanical performance.

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