

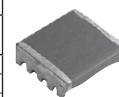
# AVX MLCC Capacitors and Kits

Products may be RoHS compliant. Check mouser.com for RoHS status.

## RH SERIES CAPACITORS

This range of uncoated MLC capacitors are processed for input and output filter capacitors in high frequency DC-DC converter applications above 10 watts e.g. telecomms and instrumentation, where high volume and low cost is required.

| Style | L max       | W max       | H max       | S ± 0.1 (±0.004) | h                      | No. of leads per side | DIMENSIONS: mm (in.) |      |      |
|-------|-------------|-------------|-------------|------------------|------------------------|-----------------------|----------------------|------|------|
|       |             |             |             |                  |                        |                       | 1                    | 50   | 100  |
| RH22  | 7.62(0.300) | 5.40(0.213) | 7.50(0.295) | 2.50(0.098)      | 1.50±0.30(0.059±0.012) | 2                     | 5.54                 | 4.23 | 3.87 |
| RH51  | 10.7(0.421) | 10.7(0.421) | 4.90(0.192) | 7.62(0.300)      | 1.60±0.10(0.062±0.004) | 4                     | 5.84                 | 5.11 | 4.08 |
| RH52  | 10.7(0.421) | 10.7(0.421) | 8.20(0.323) | 7.62(0.300)      | 1.60±0.10(0.062±0.004) | 4                     | 6.42                 | 5.44 | 4.49 |



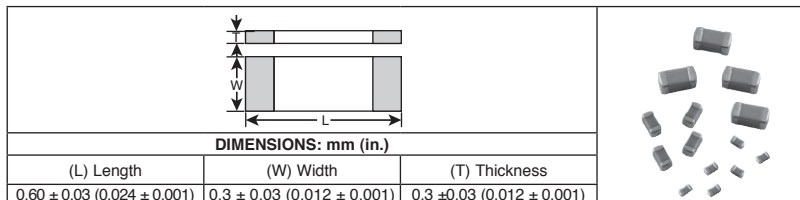
For quantities greater than listed, call for quote.

| MOUSER STOCK NO.    | AVX Part No.    | Temp. Coef. | Value (µF) | Volt | Price Each |       |       |  |  |
|---------------------|-----------------|-------------|------------|------|------------|-------|-------|--|--|
|                     |                 |             |            |      | 1          | 50    | 100   |  |  |
| <b>Style RH22</b>   |                 |             |            |      |            |       |       |  |  |
| 581-RH221C106MA3RA3 | RH221C106MA3RA3 | X7R         | 10         | 100  | 5.54       | 4.23  | 3.87  |  |  |
| 581-RH225C226MA3RA3 | RH225C226MA3RA3 | X7R         | 22         | 50   | 5.84       | 5.11  | 4.08  |  |  |
| 581-RH223C476MA3RA3 | RH223C476MA3RA3 | X7R         | 47         | 25   | 6.42       | 5.44  | 4.49  |  |  |
| <b>Style RH51</b>   |                 |             |            |      |            |       |       |  |  |
| 581-RH511C126MA3RA3 | RH511C126MA3RA3 | X7R         | 12         | 100  | 16.70      | 13.10 | 11.69 |  |  |
| <b>Style RH52</b>   |                 |             |            |      |            |       |       |  |  |
| 581-RH521C226MA3RA3 | RH521C226MA3RA3 | X7R         | 22         | 100  | 22.84      | 17.15 | 15.98 |  |  |
| 581-RH525C336MA3RA3 | RH525C336MA3RA3 | X7R         | 33         | 50   | 22.84      | 17.15 | 15.98 |  |  |

## AU SERIES CAPACITORS

### Features:

- Capacitance Tolerance: ±10%
- Temperature Characteristic: ±15%
- Test Frequency: 1 kHz @ 1 Vrms ±.2V
- Termination: Nickel Barrier, Gold Flash
- For insulation resistance, charge device with rated voltage for 120secs @ room temp/humidity



For quantities greater than listed, call for quote.

| MOUSER STOCK NO.   | AVX Part No.   | Value (nF) | Volt | Dissipation Factor (%) | Operating Temp. (°C) | Insulation Resistance (MΩ) | Price Each |      |      | Reel Qty | Price Per Piece |
|--------------------|----------------|------------|------|------------------------|----------------------|----------------------------|------------|------|------|----------|-----------------|
|                    |                |            |      |                        |                      |                            | 1          | 50   | 100  |          |                 |
| 581-AU01ZC103KAG2A | AU01ZC103KAG2A | 10         | 10   | 5 max.                 | -55 to +125          | 10,000 min.                | 2.63       | 2.23 | 1.82 | 15000    | 1.30            |
| 581-AU016D104KAG2A | AU016D104KAG2A | 100        | 6.3  | 10 max.                | -55 to +85           | 1,000 min.                 | 2.63       | 2.23 | 1.82 | 15000    | 1.30            |

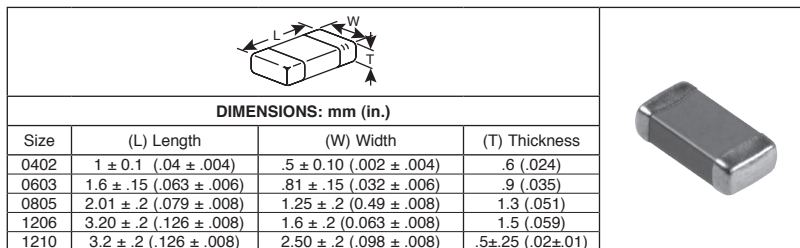
## AVX HI-CAP MULTILAYER CERAMIC CHIP CAPACITORS

### Application Note:

A higher voltage capacitor may be used in a lower voltage application. Also available in various voltages, tolerances, sizes, and temperature coefficients.

### Features:

- Temperature coefficient: C0G (NP0) -55°C to +125°C  
X7R -55°C to +125°C  
X5R -55°C to +85°C  
Y5V -30°C to +85°C



| MOUSER STOCK NO. | Description                 | Price Each |
|------------------|-----------------------------|------------|
| 581-HIGHCAP-KIT  | 20 pieces for ea. 28 values | 175.36     |

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.  | AVX Part No.   | Temp. Coef. | Value (µF) | Volt. | Tol ± (%) | Price Each |      |      | Reel Qty. | Price Per Piece |
|-------------------|----------------|-------------|------------|-------|-----------|------------|------|------|-----------|-----------------|
|                   |                |             |            |       |           | 1          | 100  | 1000 |           |                 |
| <b>Style 0402</b> |                |             |            |       |           |            |      |      |           |                 |
| 581-0402D105M     | 0402D105MAT2A  | X5R         | 1          | 4     | 10        | .57        | .34  | .28  | 10000     | .101            |
| 581-04026D105M    | 04026D105KAT2A | X5R         | 1          | 6.3   | 10        | .33        | .127 | .078 | 10000     | .048            |
| 581-04022D105M    | 04022D105KAT2A | X5R         | 1          | 10    | 10        | .50        | .30  | .182 | 10000     | .011            |
| 581-04024D225M    | 04024D225MAT2A | X5R         | 2.2        | 4     | 10        | .30        | .22  | .135 | 10000     | .084            |
| <b>Style 0603</b> |                |             |            |       |           |            |      |      |           |                 |
| 581-06036D105K    | 06036D105KAT2A | X5R         | 1          | 6.3   | 10        | .37        | .24  | .12  | 4000      | .075            |
| 581-06032D105K    | 06032D105KAT2A | X5R         | 1          | 10    | 10        | .13        | .08  | .047 | 4000      | .045            |
| 581-0603G105Z     | 0603G105ZAT2A  | Y5V         | 1          | 10    | +80-20    | .50        | .37  | .18  | 4000      | .165            |
| 581-0603YD105K    | 0603YD105KAT2A | X5R         | 1          | 16    | 10        | .10        | .038 | .02  | 4000      | .01             |
| 581-06033D105K    | 06033D105KAT2A | X5R         | 1          | 25    | 10        | .40        | .30  | .18  | 4000      | .14             |
| 581-06034D225K    | 06034D225KAT2A | X5R         | 2.2        | 4     | 10        | 1.10       | .392 | .323 | 4000      | .261            |
| 581-06036D225K    | 06036D225KAT2A | X5R         | 2.2        | 6.3   | 10        | .25        | .16  | .08  | 4000      | .05             |
| 581-06032D225K    | 06032D225KAT2A | X5R         | 2.2        | 10    | 10        | 1.02       | .73  | .32  | 4000      | .22             |
| 581-0603YD225K    | 0603YD225KAT2A | X5R         | 2.2        | 16    | 10        | 1.02       | .73  | .32  | 4000      | .22             |
| 581-06034D106M    | 06034D106MAT2A | X5R         | 10         | 4     | 20        | 2.00       | .714 | .588 | 3000      | .50             |
| <b>Style 0805</b> |                |             |            |       |           |            |      |      |           |                 |
| 581-0805ZC105K    | 0805ZC105KAT2A | X7R         | 1          | 10    | 10        | .17        | .065 | .046 | 3000      | .035            |
| 581-0805YD105K    | 0805YD105KAT2A | X5R         | 1          | 16    | 10        | .21        | .12  | .051 | 2000      | .046            |
| 581-08053D105K    | 08053D105KAT2A | X5R         | 1          | 25    | 10        | 1.10       | .846 | .261 | 3000      | .189            |
| 581-08055D105K    | 08055D105KAT2A | X5R         | 1          | 50    | 10        | .49        | .227 | .157 | 3000      | .112            |
| 581-0805YG105Z    | 0805YG105ZAT2A | Y5V         | 1          | 16    | +80-20    | .33        | .195 | .078 | 2000      | .054            |
| 581-08053G105Z    | 08053G105ZAT2A | Y5V         | 1          | 25    | +80-20    | .33        | .195 | .078 | 3000      | .054            |
| 581-0805YG225Z    | 0805YG225ZAT2A | Y5V         | 2.2        | 16    | +80-20    | .48        | .37  | .18  | 3000      | .158            |
| 581-0805YD225K    | 0805YD225KAT2A | X5R         | 2.2        | 16    | 10        | 1.43       | .84  | .40  | 3000      | .38             |
| 581-08053D225K    | 08053D225KAT2A | X5R         | 2.2        | 25    | 10        | 2.50       | 1.92 | .595 | 3000      | .431            |
| 581-08056D335K    | 08056D335KAT2A | X5R         | 3.3        | 6.3   | 10        | .63        | .43  | .26  | 3000      | .18             |
| 581-0805ZD335K    | 0805ZD335KAT2A | X5R         | 3.3        | 10    | 10        | .30        | .22  | .135 | 3000      | .09             |
| 581-0805ZG475Z    | 0805ZG475ZAT2A | Y5V         | 4.7        | 10    | +80-20    | .60        | .45  | .216 | 3000      | .18             |
| 581-08056D475K    | 08056D475KAT2A | X5R         | 4.7        | 6.3   | 10        | .35        | .22  | .09  | 3000      | .06             |
| 581-0805ZD475K    | 0805ZD475KAT2A | X5R         | 4.7        | 10    | 10        | .22        | .13  | .052 | 3000      | .049            |
| 581-0805YD475K    | 0805YD475KAT2A | X5R         | 4.7        | 16    | 10        | .60        | .45  | .216 | 3000      | .18             |
| 581-08053D475K    | 08053D475KAT2A | X5R         | 4.7        | 25    | 10        | 4.1        | .396 | .125 | 3000      | .09             |
| 581-08056D106K    | 08056D106KAT2A | X5R         | 10         | 6.3   | 10        | .24        | .10  | .058 | 3000      | .05             |
| 581-08052D106K    | 08052D106KAT2A | X5R         | 10         | 10    | 10        | .18        | .149 | .097 | 3000      | .067            |
| 581-0805YD106K    | 0805YD106KAT2A | X5R         | 10         | 16    | 10        | .24        | .12  | .07  | 3000      | .06             |
| <b>Style 1206</b> |                |             |            |       |           |            |      |      |           |                 |
| 581-1206YG105Z    | 1206YG105ZAT2A | Y5V         | 1          | 16    | +80-20    | .53        | .33  | .13  | 4000      | .09             |
| 581-1206YC105J    | 1206YC105JAT2A | X7R         | 1          | 16    | 5         | .66        | .41  | .23  | 2500      | .15             |
| 581-1206YC105K    | 1206YC105KAT2A | X7R         | 1          | 16    | 10        | .22        | .13  | .052 | 3000      | .049            |
| 581-12063C105K    | 12063C105KAT2A | X7R         | 1          | 25    | 10        | .40        | .14  | .083 | 2500      | .075            |
| 581-1206ZC225K    | 1206ZC225KAT2A | X7R         | 2.2        | 10    | 10        | 1.22       | .76  | .30  | 2500      | .19             |
| 581-1206ZC225J    | 1206ZC225JAT2A | X7R         | 2.2        | 10    | 5         | .60        | .39  | .212 | 2000      | .20             |

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.          | AVX Part No.   | Temp. Coef. | Value (µF) | Volt. | Tol ± (%) | Price Each |      |      | Reel Qty. | Price Per Piece |
|---------------------------|----------------|-------------|------------|-------|-----------|------------|------|------|-----------|-----------------|
|                           |                |             |            |       |           | 1          | 100  | 1000 |           |                 |
| <b>Style 1206 (Cont.)</b> |                |             |            |       |           |            |      |      |           |                 |
| 581-1206ZD335K            | 1206ZD335KAT2A | X5R         | 3.3        | 10    | 10        | 2.55       | 1.95 | .78  | 2000      | .54             |
| 581-1206ZD475K            | 1206ZD475KAT2A | X5R         | 4.7        | 10    | 10        | .72        | .58  | .28  | 2000      | .21             |
| 581-12066D106K            | 12066D106KAT2A | X5R         | 10         | 6.3   | 10        | 1.04       | .81  | .33  | 4000      | .214            |
| 581-1206ZD106K            | 1206ZD106KAT2A | X5R         | 10         | 10    | 10        | .60        | .35  | .143 | 2500      | .138            |
| 581-12066D226M            | 12066D226MAT2A | X5R         | 22         | 6.3   | 20        | 1.13       | .84  | .50  | 2500      | .36             |
| 581-12066D476M            | 12066D476MAT2A | X5R         | 47         | 6.3   | 20        | 1.50       | 1.08 | .78  | 2500      | .46             |
| 581-12063G105Z            | 12063G105ZAT2A | Y5V         | 1          | 25    | +80-20    | .26        | .151 | .086 | 4000      | .082            |
| 581-12065G105Z            | 12065G105ZAT2A | Y5V         | 1          | 50    | +80-20    | .37        | .227 | .118 | 4000      | .11             |
| 581-1206YG225Z            | 1206YG225ZAT2A | Y5V         | 2.2        | 16    | +80-20    | .38        | .227 | .11  | 3000      | .109            |
| 581-12063G225Z            | 12063G225ZAT2A | Y5V         | 2.2        | 25    | +80-20    | .56        | .322 | .184 | 3000      | .176            |
| 581-1206YG475Z            | 1206YG475ZAT2A | Y5V         | 4.7        | 16    | +80-20    | .40        | .227 | .12  | 2000      | .113            |
| 581-1206ZG106Z            | 1206ZG106ZAT2A | Y5V         | 10         | 10    | +80-20    | .50        | .37  | .18  | 2500      | .158            |
| <b>Style 1210</b>         |                |             |            |       |           |            |      |      |           |                 |
| 581-12103C105K            | 12103C105KAT2A | X7R         | 1          | 25    | 0.1       | .50        | .37  | .18  | 3000      | .158            |
| 581-12103C105M            | 12103C105MAT2A | X7R         | 1          | 25    | 0.2       | 1.22       | .76  | .30  | 3000      | .19             |
| 581-12105C105K            | 12105C105KAT2A | X7R         | 1          | 50    | 0.1       | .87        | .65  | .43  | 2000      | .39             |
| 581-1210YC125K            | 1210YC125KAT2A | X7R         | 1.2        | 16    | 0.1       | 1.90       | 1.17 | .46  | 2000      | .41             |
| 581-1210YC185K            | 1210YC185KAT2A | X7R         | 1.8        | 16    | 0.1       | 1.67       | 1.49 | .70  | 2000      | .63             |
| 581-1210YC225K            | 1210YC225KAT2A | X7R         | 2.2        | 16    | 0.1       | 1.65       | .97  | .39  | 2000      | .33             |
| 581-12103C225K            | 12103C225KAT2A | X7R         | 2.2        | 25    | 0.1       | 1.65       | .97  | .39  | 2000      | .33             |
| 581-12103C225M            | 12103C225MAT2A | X7R         | 2.2        | 25    | 0.2       | 1.65       | .97  | .39  | 2000      | .33             |
| 581-1210YC475J            | 1210YC475JAT2A | X7R         | 4.7        | 16    | 0.05      | 1.39       | .87  | .44  | 1000      | .44             |
| 581-1210YC475K            | 1210YC475KAT2A | X7R         | 4.7        | 16    | 0.1       | 1.71       | 1.04 | .28  | 1000      | .28             |
| 581-12103D475M            | 12103D475MAT2A | X5R         | 4.7        | 25    | 0.2       | 1.39       | .87  | .44  | 1000      | .44             |
| 581-12102D106K            | 12102D106KAT2A | X5R         | 10         | 10    | 0.1       | 2.25       | 1.33 | .53  | 2000      | .36             |
| 581-1210YD106K            | 1              |             |            |       |           |            |      |      |           |                 |