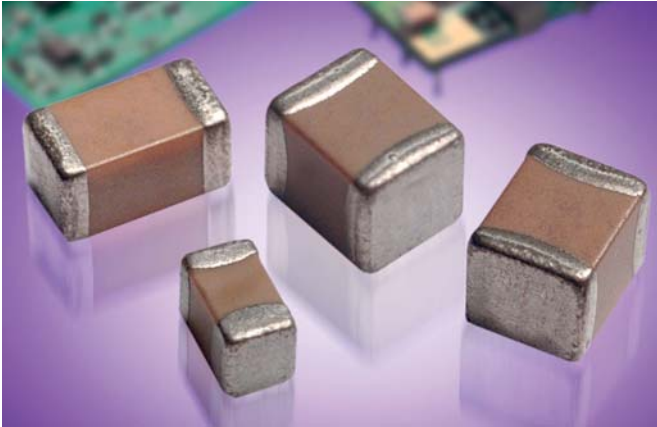


MLCC Low Profile

General Specifications



GENERAL DESCRIPTION

AVX introduces the LT series comprising a range of low profile products in our X5R and X7R dielectric. X5R is a Class II dielectric with temperature variation of capacitance within $\pm 15\%$ from -55°C to $+85^{\circ}\text{C}$. Offerings include 0201, 0402, 0603, 0805, 1206, and 1210 packages in compact, low profile designs. The LT series is ideal for decoupling and filtering applications where height clearance is limited.

AVX is also expanding the low profile products in our X7R dielectric. X7R is a Class II dielectric with temperature variation of capacitance within $\pm 15\%$ from -55°C to $+125^{\circ}\text{C}$. Please contact the factory for availability of any additional values not listed.

PART NUMBER (see page 2 for complete part number explanation)

| | | | | | | | | |
|----------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------|---------------------------------------|----------------------------------|-----------------------|-------------------------|--------------------------------------------------|---------------------|
| LT05 | Z | D | 475 | K | A | T | 2 | S |
| | | | | | | | | |
| Size | Voltage | Dielectric | Capacitance Code (In pF) | Capacitance Tolerance | Failure Rate | Terminations | Packaging | Special Code |
| LT01 - 0201 LT02 - 0402 LT03 - 0603 LT05 - 0805 LT06 - 1206 LT10 - 1210 | 4V = 4 6.3V = 6 10V = Z 16V = Y 25V = 3 | X5R = D X7R = C | 2 Sig. Digits + Number of Zeros | K = $\pm 10\%$ M = $\pm 20\%$ | A = Not Applicable | T = Plated Ni and Sn | 2 = 7" Reel 4 = 13" Reel | See table below |
| | | | | | | | Contact Factory For Multiples | |

NOTE: Contact factory for availability of tolerance options for specific part numbers.

| SIZE | LT01 | | LT02 | | | | LT03 | | | | LT05 | | | | LT06 | | | | | LT10 | | |
|----------|------|-----|------|-----|----|----|------|-----|----|----|------|----|----|----|------|----|----|----|----|------|----|--|
| | 4 | 6.3 | 4 | 6.3 | 10 | 16 | 4 | 6.3 | 16 | 25 | 6.3 | 10 | 16 | 25 | 6.3 | 10 | 16 | 25 | 50 | 16 | 25 | |
| Cap (µF) | 0.10 | Z | Z | | Q | | S | | | | | | | | | | | | | | | |
| | 0.22 | | | | | | | | | X | | | | | | | | | | | | |
| | 0.47 | | | | | | | | | X | | | | | | | | | X | | | |
| | 1.0 | Q | | C | | S | | | S | X | | | X | X | | X | X | X | W | | | |
| | 1.5 | | | | | | | | | | | | | | | | | | | | | |
| | 2.2 | | S | C | | | | S | X | | | X | X | | | X | X | X | X | | | |
| | 4.7 | | | C | | | S | X | | | X | S | X | | | W | W | X | X | W | | |
| | 10 | | | | | | | | | | X | X | | | W | W | W | X | | W | | |
| | 22 | | | | | | | | | | | | | | | | | | | | | |
| | 47 | | | | | | | | | | | | | | | | | | | | | |
| WVDC | 4 | 6.3 | 4 | 6.3 | 10 | 16 | 4 | 6.3 | 16 | 25 | 6.3 | 10 | 16 | 25 | 6.3 | 10 | 16 | 25 | 50 | 16 | 25 | |
| SIZE | LT01 | | LT02 | | | | LT03 | | | | LT05 | | | | LT06 | | | | | LT10 | | |

 = X7R

| Letter | J | Z | Q | C | S | X | W |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Max. Thickness | 0.15 (0.006) | 0.22 (0.009) | 0.25 (0.010) | 0.36 (0.014) | 0.56 (0.022) | 0.95 (0.038) | 1.02 (0.040) |
| | PAPER | | | | | | EMBOSSED |

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[L0603NPO2R2B50TRPF](#) [NMC-Q0402NPO8R2D200TRPF](#) [C1206C101J1GAC](#) [C1608C0G2A221J](#) [C1608X7R1E334K](#) [C2012C0G2A472J](#)
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