

MLCC ROHS Material Declaration

| Product Series | Material | ROHS Compliant | Pb Free Termination | Maximum Solder Temperature (°C) | % by Weight | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------------------|----------------|---------------------|---------------------------------|-------------|----|-----|----|----|----|-----|------|----|----|------|----|-----|-----|-----|------|----|-----|-----|----|----|-------|----|------|------|-------------------------|
| | | | | | Ba | Zr | Ca | Sr | Nd | Nb | Mg | Ti | Pd | Ag | Ni | Sn | Cu | Al | Rh | Sm | Bi | Pr | Zn | Pb | Cd | Cr VI | Hg | PBDE | PBB | Trace of other Elements |
| HVC | NPO ≤180 pF | Y | Y | 265 | 0 | 40 | 25 | 10 | 0 | 0 | 0.2 | 1.5 | 0 | 0 | 3 | 7 | 10 | 0.7 | 2.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| | NPO ≤180 pF (Super term.) | Y | Y | 265 | 0 | 39 | 24 | 9 | 0 | 0 | 0.2 | 1.5 | 0 | 3 | 3 | 7 | 10 | 0.7 | 2.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | |
| | X7R | Y | Y | 265 | 54 | 4 | 2 | 1 | 0 | 0 | 0 | 27 | 0 | 0 | 4 | 3 | 4 | 0.3 | 0.3 | 0 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.00 | |
| | X7R (super term.) | Y | Y | 265 | 54 | 4 | 2 | 1 | 0 | 0 | 0 | 27 | 0 | 2 | 4 | 3 | 2 | 0.3 | 0.3 | 0 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.00 | |
| SCC | NPO ≤180 pF | Y | Y | 265 | 0 | 40 | 25 | 10 | 0 | 0 | 0.2 | 1.5 | 0 | 0 | 3 | 7 | 10 | 0.7 | 2.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | |
| | NPO ≤180 pF (Super term.) | Y | Y | 265 | 0 | 39 | 24 | 9 | 0 | 0 | 0.2 | 1.5 | 0 | 3 | 3 | 7 | 10 | 0.7 | 2.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | |
| | X7R | Y | Y | 265 | 54 | 4 | 2 | 1 | 0 | 0 | 0 | 27 | 0 | 0 | 4 | 3 | 4 | 0.3 | 0.3 | 0 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.00 | |
| | X7R (super term.) | Y | Y | 265 | 54 | 4 | 2 | 1 | 0 | 0 | 0 | 27 | 0 | 2 | 4 | 3 | 2 | 0.3 | 0.3 | 0 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.00 | |
| NCC | NPO | Y | Y | 265 | 0 | 39 | 24 | 9 | 0 | 0 | 0.2 | 1.5 | 0 | 3 | 3 | 7 | 10 | 0.7 | 2.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | |
| | X7R | Y | Y | 265 | 51.5 | 0 | 0.3 | 0 | 0 | 0 | 0 | 25.7 | 0 | 0 | 15 | 3 | 3.5 | 0.3 | 0.3 | 0 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.00 | |
| | X5R | Y | Y | 265 | 46.5 | 4 | 2 | 1 | 0 | 0 | 0 | 23.8 | 0 | 0 | 15 | 3 | 3.5 | 0.3 | 0.3 | 0 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.20 | |
| | Y5V | Y | Y | 265 | 50.4 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 5.25 | 22 | 2.3 | 0.1 | 0 | 0.35 | 0 | 2.1 | 4.5 | 0 | 0 | 0 | 0 | 0 | 0.00 | |
| HCC | X7R | Y | Y | 265 | 51.5 | 0 | 0.3 | 0 | 0 | 0 | 0 | 25.7 | 0 | 0 | 15 | 3 | 3.5 | 0.3 | 0.3 | 0 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.00 | |
| | X5R | Y | Y | 265 | 46.5 | 4 | 2 | 1 | 0 | 0 | 0 | 23.8 | 0 | 0 | 15 | 3 | 3.5 | 0.3 | 0.3 | 0 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.20 | |
| | Y5V | Y | Y | 265 | 50.4 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 5.25 | 22 | 2.3 | 0.1 | 0 | 0.35 | 0 | 2.1 | 4.5 | 0 | 0 | 0 | 0 | 0 | 0.00 | |
| HCC | NPO | Y | Y | 265 | 0 | 39 | 24 | 9 | 0 | 0 | 0.2 | 1.5 | 0 | 3 | 3 | 7 | 10 | 0.7 | 2.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | | |
| HCC | X7R | Y | Y | 265 | 51.5 | 0 | 0.3 | 0 | 0 | 0 | 0 | 25.7 | 0 | 0 | 15 | 3 | 3.5 | 0.3 | 0.3 | 0 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.00 | |

Due to variation in Capacitance values, voltages and sizes, the numbers are all typical.