

C Series—High Temp Applications MLCC Kit

Consumer Grade High Temperature Applications Capacitor Kit



TDK'S X8R and NP0 High Temperature Series features stable temperature characteristics and higher reliability performance up to 150°C. This series is designed to meet the needs of automotive applications and/or applications which require operating conditions beyond 125°C of the X7R and C0G temperature characteristic ratings. Temperature characteristics of capacitance for this series are stable ($\pm 15\%$ and $0\pm 30\text{ppm}$) even at the higher temperature ($\sim 150^\circ\text{C}$). The X8R dielectric shows highly precise performance (capacitance change of $\pm 7.5\%$) up to 125°C. With precise temperature characteristics, these capacitors are ideal for various high temperature applications.

Features

- For temperature extremes of -55°C to 150°C
- Excellent temperature stability
- Robust and reliable
- Non-polarized for easy installation
- Low ESR & ESL
- RoHS/REACH compliant and Lead/Halogen Free

150°C (NP0/X8R)

Up to 50V

Consumer

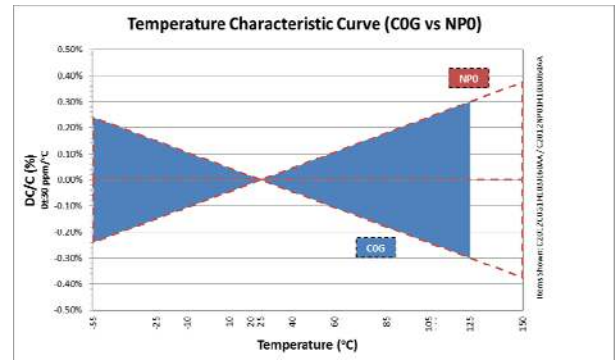
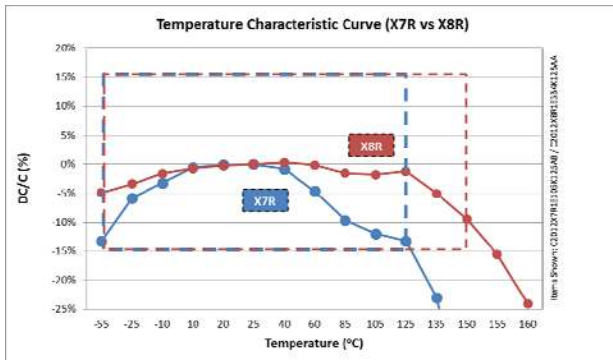


Applications

- Lighting Applications
- Industrial Routers, Switches
- Industrial Camera Module
- Burn-In Applications & High Temp Probes
- Higher Temp Sensor Modules
- Higher Temp Measurement Equipment and Machinery

[Datasheet](#)

Temperature Characteristics



C-HT01-E6-KIT High Temp Applications Kit Includes:

Case Size: 1005-3225 (EIA 0402-1210)

Rated Voltage: 16V-50V

Capacitance Range: 10pF-10 μF

Now Available at:
Click the Digi-Key logo for ordering information



C-HT01-E6-KIT High Temp Applications Kit Includes:

TDK Item List	Item Description
C1005NP01H100D050BA	High Temp MLCC - SMD/SMT - 0402 10pF \pm 0.50pF NP0 50V
C1005NP01H150J050BA	High Temp MLCC - SMD/SMT - 0402 15pF \pm 5% NP0 50V
C1005NP01H220J050BA	High Temp MLCC - SMD/SMT - 0402 22pF \pm 5% NP0 50V
C1005NP01H330J050BA	High Temp MLCC - SMD/SMT - 0402 33pF \pm 5% NP0 50V
C1005NP01H470J050BA	High Temp MLCC - SMD/SMT - 0402 47pF \pm 5% NP0 50V
C1005NP01H680J050BA	High Temp MLCC - SMD/SMT - 0402 68pF \pm 5% NP0 50V
C1608NP01H101J080AA	High Temp MLCC - SMD/SMT - 0603 100pF \pm 5% NP0 50V
C1608NP01H151J080AA	High Temp MLCC - SMD/SMT - 0603 150pF \pm 5% NP0 50V
C1608NP01H221J080AA	High Temp MLCC - SMD/SMT - 0603 220pF \pm 5% NP0 50V
C1608NP01H331J080AA	High Temp MLCC - SMD/SMT - 0603 330pF \pm 5% NP0 50V
C1608NP01H471J080AA	High Temp MLCC - SMD/SMT - 0603 470pF \pm 5% NP0 50V
C1608NP01H681J080AA	High Temp MLCC - SMD/SMT - 0603 680pF \pm 5% NP0 50V
C1608X8R1H102K080AA	High Temp MLCC - SMD/SMT - 0603 1000pF \pm 10% X8R 50V
C1608X8R1H152K080AA	High Temp MLCC - SMD/SMT - 0603 1500pF \pm 10% X8R 50V
C1608X8R1H222K080AA	High Temp MLCC - SMD/SMT - 0603 2200pF \pm 10% X8R 50V
C1608X8R1H332K080AA	High Temp MLCC - SMD/SMT - 0603 3300pF \pm 10% X8R 50V
C1608X8R1H472K080AA	High Temp MLCC - SMD/SMT - 0603 4700pF \pm 10% X8R 50V
C1608X8R1H682K080AA	High Temp MLCC - SMD/SMT - 0603 6800pF \pm 10% X8R 50V
C1608X8R1H103K080AA	High Temp MLCC - SMD/SMT - 0603 0.01 μ F \pm 10% X8R 50V
C1608X8R1H223K080AA	High Temp MLCC - SMD/SMT - 0603 0.022 μ F \pm 10% X8R 50V
C1608X8R1H473K080AA	High Temp MLCC - SMD/SMT - 0603 0.047 μ F \pm 10% X8R 50V
C2012X8R1H104K125AA	High Temp MLCC - SMD/SMT - 0805 0.1 μ F \pm 10% X8R 50V
C2012X8R1H224K125AB	High Temp MLCC - SMD/SMT - 0805 0.22 μ F \pm 10% X8R 50V
C3216X8R1H474K160AA	High Temp MLCC - SMD/SMT - 1206 0.47 μ F \pm 10% X8R 50V
C3216X8R1H105K160AB	High Temp MLCC - SMD/SMT - 1206 1 μ F \pm 10% X8R 50V
C3216X8R1E225K160AB	High Temp MLCC - SMD/SMT - 1206 2.2 μ F \pm 10% X8R 25V
C3225X8R1E475K250AB	High Temp MLCC - SMD/SMT - 1210 4.7 μ F \pm 10% X8R 25V
C3225X8R1C106K250AB	High Temp MLCC - SMD/SMT - 1210 10 μ F \pm 10% X8R 16V