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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 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  $-55^\circ\text{C}$  to  $150^\circ\text{C}$
- 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

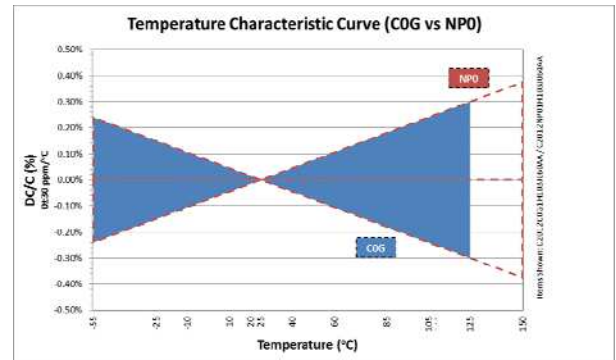
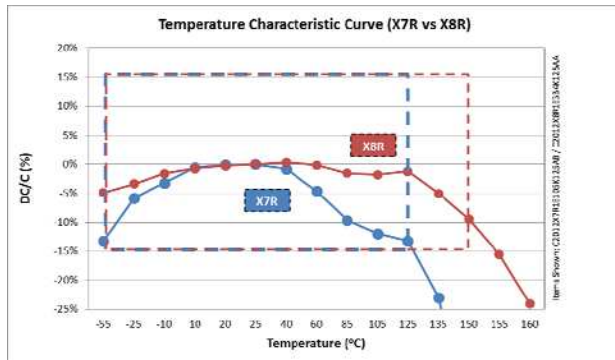


### Applications

- 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-10μF

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 $\pm 0.50\text{pF}$ 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 $\mu\text{F}$ $\pm 10\%$ X8R 50V
C1608X8R1H223K080AA	High Temp MLCC - SMD/SMT - 0603 0.022 $\mu\text{F}$ $\pm 10\%$ X8R 50V
C1608X8R1H473K080AA	High Temp MLCC - SMD/SMT - 0603 0.047 $\mu\text{F}$ $\pm 10\%$ X8R 50V
C2012X8R1H104K125AA	High Temp MLCC - SMD/SMT - 0805 0.1 $\mu\text{F}$ $\pm 10\%$ X8R 50V
C2012X8R1H224K125AB	High Temp MLCC - SMD/SMT - 0805 0.22 $\mu\text{F}$ $\pm 10\%$ X8R 50V
C3216X8R1H474K160AA	High Temp MLCC - SMD/SMT - 1206 0.47 $\mu\text{F}$ $\pm 10\%$ X8R 50V
C3216X8R1H105K160AB	High Temp MLCC - SMD/SMT - 1206 1 $\mu\text{F}$ $\pm 10\%$ X8R 50V
C3216X8R1E225K160AB	High Temp MLCC - SMD/SMT - 1206 2.2 $\mu\text{F}$ $\pm 10\%$ X8R 25V
C3225X8R1E475K250AB	High Temp MLCC - SMD/SMT - 1210 4.7 $\mu\text{F}$ $\pm 10\%$ X8R 25V
C3225X8R1C106K250AB	High Temp MLCC - SMD/SMT - 1210 10 $\mu\text{F}$ $\pm 10\%$ X8R 16V