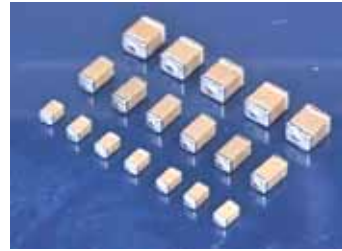


LDC Series

[Low Distortion Capacitor]



The Holystone LDC series are designed with X7E material which has extremely low capacitance variation over the operating temperature range as opposed to X7R material. LDC exhibits very low ESR and due to the high dielectric constant nature of the material, high capacitance values can be packaged in small size, which makes LDC desirable for SMT Film capacitor replacement.

LDC's are suitable for reflow soldering with Pb free solders up to 260°C and are ROHS compliant. The LDC series are offered in 0603 to 2220 size, 25 and 50 volts and capacitance values up to 270 nF.

◆ Features & Application

- Small Size & High Capacitance
- Excellent Bias, High Temperature Stability & Low Tan
- High Breakdown Voltage
- Replace Film Capacitor
- Suitable for Telecommunication (ADSL, Modem...), Power (Inverter for Burst Mode Circuit) & Audio Circuit

◆ Summary of Specification

Operation Temperature	-55~+125
Rated Voltage	25V and 50Vdc
Temperature Coefficient	X7E : $\leq \pm 4.7\%$, -55~+125 (EIA Class II)
Capacitance Range	1nF ~ 270nF
Dissipation Factor :	For 50V : 1.2% max. at 1KHz 25
	For 25V : 2.0% max. at 1KHz 25
Insulation Resistance	10G or 500/C whichever is smaller
Dielectric Strength	250% Rated Voltage for 5 second @ 50mA max. current
Capacitance Tolerance	$\pm 5\%$, $\pm 10\%$
Aging	1.0% per decade hr , Typical

◆ How To Order

LDC

1206

C

103

K

025

T

Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging
LDC: Low Distortion Capacitor	Ex.: 1206 : 3.2×1.6 mm 1210 : 3.2×2.5 mm	C: X7E	Ex.: 102:10×10 ² 224:22×10 ⁴	Ex.: J : +/- 5% K: +/- 10% M: +/- 20%	Ex.: 025:25Vdc 050:50Vdc	T: Taping & Reel B: Bulk

