

With more than 20 years of designing, manufacturing and supplying capacitors, we have developed ourselves to be the leading global supplier in the capacitors market. Hongda Capacitors are IATF16949 certified manufacturer, and we obtained military parts qualification of GJB9001C:2017. Hongda Capacitors continuously focus on providing good quality and environmental friendly products and services to meet customer's total satisfaction.

## Chip Multilayer Ceramic Capacitors

HLC Chip Multilayer Ceramic Capacitors (Chip MLCC, General Purpose)				
Dielectric:	NPO	X7R	X5R	Y5V
Capacitance range:	0.1pF to 0.27μF	100pF to 47μF	100pF to 220μF	0.01μF to 100μF
Capacitance tolerance	Cap<10pF: C (±0.25pF), D (±0.5pF) Cap≥10pF: J (±5%), K (±10%)	J (±5%), K (±10%), M (±20%)	K (±10%), M (±20%)	M (±20%), Z (-20/+80%)
Rated voltage (WVDC)	4V, 6.3V, 10V, 16V, 25V, 50V, 100V, 200V, 250V, 500V, 1000V, 2000V, 3000V, 4000V			
Operating temperature	-55 to +125°C		-55 to +85°C	-25 to +85°C
Capacitance characteristic	±30ppm	±15%	±15%	+30/-80%
Case Size:	0201, 0402, 0603, 0805, 1206, 1210, 1808, 1812, 1825, 2211, 2220, 2225			



## Tantalum Capacitors

CA42 Radial Epoxy Dipped Tantalum Capacitor (General Purpose)	
Operating Temp.:	-55°C ~ +125°C; >85°C (with rated voltage derating)
DC Leakage at 25°C:	I <sub>sc</sub> 0.02 CRUR or 1uA (Choose the greater one)
Capacitance:	0.68μF~1000μF
Voltage Range:	6.3V, 10V, 16V, 25V, 35V, 50V
Tolerance:	K: ±10%; M: ±20% (Standard Tolerance)
Pitch Size:	2.54mm & 5.08mm
Package Type:	Bulk; Ammo Taped Package
Cross Reference:	AVX TAP; Kemet T350-T390; Nemco TB, Vishay 199D



CA45 Chip Tantalum Capacitors (General Purpose)	
Operating Temp.:	-55°C ~ +125°C; >85°C (with rated voltage derating)
DC Leakage at 25°C:	I <sub>sc</sub> 0.01 CRUR or 0.5 uA (Choose the greater one)
Capacitance:	0.68μF~2200μF
Voltage Range:	2.5V, 4V, 6.3V, 10V, 16V, 20V, 25V, 35V, 50V
Tolerance:	K: ±10%; M: ±20% (Standard Tolerance)
Case Size:	A, B, C, D, E, V case (SMT)
Package Type:	Tape & Reel
SPQ/MPQ:	Reel Qty.: A B 2000pcs; C D 500pcs; E 400pcs
Cross Ref.:	AVX TAJ series F930, Kemet T491 Series, Vishay 293D



CA45L Low ESR Chip Tantalum Capacitors	
Operating Temp.:	-55°C ~ +125°C; >85°C (with rated voltage derating)
DC Leakage at 25°C:	I <sub>sc</sub> 0.01 CRUR or 0.5 uA (Choose the greater one)
Capacitance:	0.68μF~1000μF
Voltage Range:	4V, 6.3V, 10V, 16V, 20V, 25V, 35V, 50V
Tolerance:	K: ±10%; M: ±20% (Standard Tolerance)
Case Size:	A, B, C, D, E, V case (SMT)
Package Type:	Tape & Reel
SPQ/MPQ:	Reel Qty.: A B 2000pcs; C D 500pcs; E 400pcs
Cross Ref.:	AVX TPS series, Kemet T494 T495, Vishay 593D



CA55 Polymer Tantalum Capacitors	
Operating Temp.:	-55°C ~ +105°C; >85°C (with rated voltage derating)
DC Leakage at 25°C:	I <sub>sc</sub> 0.1 CRUR
Capacitance:	0.68μF~1000μF
Voltage Range:	2.5V, 4V, 6.3V, 10V, 16V, 20V, 25V, 35V, 50V, 63V
Tolerance:	K: +/-10%; M: +/-20% (+/-20% tolerance is standard)
Case Size:	A, B, C, D, E, H, V case (SMT)
Package Type:	Tape & Reel
Cross Ref.:	AVX TCJ series, Kemet T520 Series, Vishay T55



QCA45 Chip Tantalum Capacitors (Automotive Grade)	
Operating Temp.:	-55°C ~ +125°C; >85°C (with rated voltage derating)
DC Leakage at 25°C:	I <sub>sc</sub> 0.01CRUR or 0.5 uA (Choose the greater one)
Capacitance:	0.68μF~680μF
Voltage Range:	4V, 6.3V, 10V, 16V, 20V, 25V, 35V, 50V
Tolerance:	K: ±10%; M: ±20% (Standard Tolerance)
Case Size:	A, B, C, D, E, H, V case (SMT)
Package Type:	Tape & Reel
SPQ/MPQ:	Reel Qty.: A B 2000pcs; C D 500pcs; E 400pcs
Cross Ref.:	AVX TAJ series, Kemet T489/T490/T491 series



## SMD Electrolytic Capacitors

HCS Series 85°C 2000 Hours V-Chip Aluminum Electrolytic Capacitor (SMD E-CAP)		HCH -40~+105°C 3000 hrs. Load Life High Voltage, Long Life SMD E-Cap	
HCS Series:	Standard, 85°C V-chip aluminum electrolytic capacitors	HCH Series:	High Voltag, 105°C V-chip aluminum electrolytic capacitors
Temperature:	-40°C~ +85°C	Temperature:	-40°C ~ +105°C
Load life:	2000 hrs.	Load life:	3000 hrs.
Voltage:	4 ~ 450V DC	Voltage:	160 ~ 450V DC
Capacitance:	0.1 ~ 10000uF	Capacitance:	3.3 ~ 100μF
Tolerance:	±20% at 120Hz, 20°C	Tolerance:	±20% at 120Hz, 20°C
Size:	4x5.4, 5x5.4, 6.3x5.4, 6.3x7.7, 8x10.5, 10x10.5, 10x13.5, 12.5x13.5, 12.5x16, 16x16.5, 18x16.5, 18x18.5	Size:	10x13.5, 12.5x13.5, 12.5x16, 16x16.5
HCK Series 105°C 2000 Hours V-Chip Aluminum Electrolytic Capacitor (SMD E-CAP)		HHU -40~+105°C 5000 hrs. Load Life High Voltage, Long Life SMD E-Cap	
HCK Series:	Standard, 105°C V-chip aluminum electrolytic capacitors	HHU Series:	High Voltage, 105°C V-chip aluminum electrolytic capacitors
Temperature:	-40°C~ +105°C	Temperature:	-40°C ~ +105°C
Load life:	2000 hrs	Load life:	5000 hrs
Voltage:	4 ~ 450V DC	Voltage:	160 ~ 450V DC
Capacitance:	0.1 ~ 8200uF	Capacitance:	3.3 ~ 47μF
Tolerance:	±20% at 120Hz, 20°C	Tolerance:	±20% at 120Hz, 20°C
Size:	4x5.4, 5x5.4, 6.3x5.4, 6.3x7.7, 8x10.5, 10x10.5, 10x13.5, 12.5x13.5, 12.5x16, 16x16.5, 18x16.5, 18x18.5	Size:	8x12.5, 10x10.5, 10x13.5, 12.5x13.5, 12.5x16
HLZ -55~+105°C 2000 hrs. Load Life Low Impedance SMD E-Cap		HKH -40~+125°C 5000 hrs. Load Life High Temperature SMD E-Cap	
HLZ Series:	Low Impedance, 105°C V-chip aluminum electrolytic capacitors	HKH Series:	High Temperature, 125°C V-chip aluminum electrolytic capacitors
Temperature:	-55°C~+105°	Temperature:	-40°C ~ +125°C
Load life:	1000-2000 hrs.	Load life:	1000-5000 hrs.
Voltage:	6.3 ~ 50V DC	Voltage:	10 ~ 450V DC
Capacitance:	1.0 ~ 4700μF	Capacitance:	3.3 ~ 4700μF
Tolerance:	±20% at 120Hz, 20°C	Tolerance:	±20% at 120Hz, 20°C
Size:	4x5.4, 5x5.4, 6.3x5.4, 6.3x7.7, 8x10.5, 10x10.5, 10x13.5, 12.5x13.5, 12.5x16, 16x16.5	Size:	4x5.8, 5x5.8, 6.3x5.8, 6.3x7.7, 8x10.5, 10x10.5, 10x13.5, 12.5x13.5, 12.5x16, 16x16.5, 18x16.5
HKZ -55~+105°C Extremely Low Impedance SMD E-Cap		HEL -55~+105°C 3000 hrs. Load Life Long Life Assurance SMD E-Cap	
HKZ Series:	Low Impedance, 105°C V-chip aluminum electrolytic capacitors	HEL Series:	Long life, 105°C V-chip aluminum electrolytic capacitors
Temperature:	-55°C ~ +105°C	Temperature:	-55°C ~ +105°C
Load life:	1000-3000 hrs.	Load life:	2000-3000 hrs.
Voltage:	6.3 ~ 50V DC	Voltage:	6.3 ~ 50V DC
Capacitance:	4.7 ~ 4700μF	Capacitance:	0.1 ~ 1500μF
Tolerance:	±20% at 120Hz, 20°C	Tolerance:	±20% at 120Hz, 20°C
Size:	4x5.8, 5x5.8, 6.3x5.8, 6.3x7.7, 8x10.5, 10x10.5, 10x13.5, 12.5x13.5, 12.5x16, 16x16.5, 18x16.5, 18x18.5	Size:	4x5.8, 5x5.8, 6.3x5.8, 6.3x7.7, 8x10.5, 10x10.5, 10x13.5, 12.5x13.5, 12.5x16, 16x16.5
HFZ -55~+105°C Long life, Extremely Low Impedance SMD E-Cap		HKL 55~+105°C 5000 hrs. Load Life Long Life Assurance SMD E-Cap	
HFZ Series:	Low Impedance, 105°C V-chip aluminum electrolytic capacitors	HKL Series:	Long life, 105°C V-chip aluminum electrolytic capacitors
Temperature:	-55°C ~ +105°C	Temperature:	-55°C ~ +105°C
Load life:	2000-5000 hrs.	Load life:	3000-5000 hrs.
Voltage:	6.3 ~ 100V DC	Voltage:	6.3 ~ 100V DC
Capacitance:	3.3 ~ 8200μF	Capacitance:	0.1 ~ 1500μF
Tolerance:	±20% at 120Hz, 20°C	Tolerance:	±20% at 120Hz, 20°C
Size:	4x5.8, 5x5.8, 6.3x5.8, 6.3x7.7, 8x10.5, 10x10.5, 10x13.5, 12.5x13.5, 12.5x16, 16x16.5, 18x16.5, 18x18.5	Size:	4x5.8, 5x5.8, 6.3x5.8, 6.3x7.7, 8x10.5, 10x10.5, 10x13.5, 12.5x13.5, 12.5x16, 16x16.5
HCP -40~+85°C 3000 hrs. Load Life High Voltage, Long Life SMD E-Cap		HSC -40~+85°C 2000 hrs. Load Life Low Leakage Current SMD E-Cap	
HCP Series:	High Voltage, 85°C V-chip aluminum electrolytic capacitors	HSC Series:	Low Leakage Current, 85°C V-chip aluminum electrolytic capacitors
Temperature:	-40°C~ +85°C	Temperature:	-40°C ~ +85°C
Load life:	3000 hrs.	Load life:	2000 hrs.
Voltage:	160 ~ 450V DC	Voltage:	6.3 ~ 50V DC
Capacitance:	3.3 ~ 100μF	Capacitance:	0.1 ~ 220μF
Tolerance:	±20% at 120Hz, 20°C	Tolerance:	±20% at 120Hz, 20°C
Size:	10x13.5, 12.5x13.5, 12.5x16, 16x16.5	Size:	4x5.4, 5x5.4, 6.3x5.4, 6.3x7.7
HCN -40~+85°C 1000 hrs. Load Life Non-polarized		HKP -55~+105°C 1000 hrs. Load Life Non-polarized	
HCN Series:	Load Life Non-polarized	HKP Series:	Load life Non-polarized
Temperature:	-40°C~ +85°C	Temperature:	-55°C ~ +105°C
Load life:	1000 hrs.	Load life:	1000 hrs.
Voltage:	6.3 ~ 50V DC	Voltage:	6.3 ~ 50V DC
Capacitance:	0.1 ~ 100μF	Capacitance:	0.1 ~ 47μF
Tolerance:	±20% at 120Hz, 20°C	Tolerance:	±20% at 120Hz, 20°C
Size:	4x5.4, 5x5.4, 6.3x5.4, 6.3x7.7	Size:	4x5.4, 5x5.4, 6.3x5.4



## Polymer Tantalum Capacitors

### CA55 Polymer

#### Specifications:

- \* Operating Temperature: -55°C ~ +105°C
- \* Capacitance Range: 0.68uF~1000uF at 100Hz
- \* Voltage Range: 2.5V~63V
- \* A,B,C,D,E,H,V case sizes available

#### Application:

DC/DC converter, audio/sound circuits(mobile phones, base stations, smart phone), telecommunications...



## Choose the right chip inductors and beads

Inductors and beads are common passive electronic components, which are widely used in many challenging applications. If your design requires high-quality inductors and beads, our products below are for your choosing.

## Multilayer Chip Ceramic Inductors

### HDCL02012H, HDCL0603T, HDCL0005T and HDCL608H

#### Specification:

- \* High reliability
- \* Surface mountable
- \* Excellent solderability and heat resistance
- \* Multiple size availability, 0201, 0402, 0603, 0805 and so on

#### Applications:

Inductors are used to suppress conductive interference. Prevention of electromagnetic interference to signals on the secondary side of electric equipment. RF module of telecommunication products, personal handyphone systems, pagers, cellular phones, computer communications, etc...



## Polymer Electrolytic Capacitors

### Radial type: HE2 & HH2; SMD type: HMA & HMB

1. HE2 Radial Low ESR Conductive Polymer E-cap (2.5V-25V)
2. HH2 Radial High Voltage Conductive Polymer E-cap (35V-100V)

#### Specifications:

- \* Operating Temperature: -55°C ~ +105°C
- \* Capacitance Range: 0.68uF~1000uF at 100Hz
- \* Voltage Range: 2.5V~100V
- \* φ 5, 6.3, 8 and 10mm are available.

#### Application:

5G industry, IT products, Industrial electronics, PD power supply, household appliances, security technology, LED devices and so on.

3. HMA SMD Standard Low ESR Conductive Polymer E-caps
4. HMB SMD High Capacitance Ultra-Low ESR Conductive Polymer E-caps

#### Specifications:

- \* Operating Temperature: -55°C ~ +105°C
- \* Capacitance Range: 3.3 ~ 1500μF
- \* Voltage Range: 2.5V~25V
- \* 4 x 5.5; 5 x 6; 6.3 x 5.5/6; 8 x 7; 8 x 12; 10 x 8/10; 10 x 12.7mm and so on.

#### Application:

Typically used for the application of bypassing and coupling, discharging, used in main board, PD driver, vehicle electronics and so on.

## Multilayer Chip Beads

### HDGB, HDHB, HDLB and HD5B

#### Specification:

- \* High soldering heat resistance
- \* Surface mountable
- \* Low DC resistance
- \* Multiple size availability, 0201, 0402, 0603, 0805, 1206 and so on

#### Applications:

Magnetic beads are mainly used to suppress electromagnetic radiation interference, For main board, CD-ROM, hard disk driver, digital TVs and VTRs Printers, wireless phone, personal computers and general consumer and computers products

