

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

Table with 5 columns: Dielectric (NPO, X7R, X5R, Y5V), Capacitance range, Capacitance tolerance, Rated voltage (WVDC), Operating temperature, and Capacitance characteristic. Includes an image of four chip capacitors.

Tantalum Capacitors

CA42 Radial Epoxy Dipped Tantalum Capacitor (General Purpose). Operating Temp: -55°C~+125°C;>85°C. Includes an image of three radial tantalum capacitors.

CA45 Chip Tantalum Capacitors (General Purpose). Operating Temp: -55°C~+125°C;>85°C. Includes an image of three chip tantalum capacitors.

CA45L Low ESR Chip Tantalum Capacitors. Operating Temp: -55°C~+125°C;>85°C. Includes an image of three low ESR chip tantalum capacitors.

CA55 Polymer Tantalum Capacitors. Operating Temp: -55°C~+105°C;>85°C. Includes an image of one polymer tantalum capacitor.

QCA45 Chip Tantalum Capacitors (Automotive Grade). Operating Temp: -55°C~+125°C;>85°C. Includes an image of three automotive grade chip tantalum capacitors.

SMD Electrolytic Capacitors

Large table listing various SMD Electrolytic Capacitor series: HCS, HCH, HCK, HHU, HLZ, HKH, HKZ, HEL, HFZ, HKL, HCP, HSC, HCN, HCH, HKP. Each entry includes series name, temperature range, load life, voltage, capacitance, tolerance, and size. Includes images of various capacitor types.

## 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

### HDCI2012H, HDCI0603T, HDCI1005T and HDCI1608H

#### 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 12/10; 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 HDSB

#### 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



## Chip High Q Inductor

### Chip Inductor Precision Winding (High Q) Type

**HDTC Series (Ceramic) : 0402(1005)/0603(1608)/0805(2012) Size**

**HTF Series (Ferrite) : 0402/0603/0805/1008/1210 Size**

### Multilayer Chip High Q Inductor

**HDH Series : 0402(1005)/0603(1608)/0805(2012) Size**

#### Specification:

- \* 100% Lead-Free \* RoHS REACH Compliant \* High Q facto
- \* Tight Inductance Tolerance \* Surface Mounting Applicability
- \* High self-resonant frequency \* Excellent Q & Guaranteed SRF Range
- \* Excellent Solderability and High Heat Resistance

#### Applications:

- \* Mobile/Computer communications \* EMI Counter measure in High Frequency Circuits
- \* Mobile phones such as GSM, CDMA, TD-LTE, FDD-LTE, PDC, 5GNR
- \* RF circuit in telecommunication and other Equipments \* WLAN \* PHS

## Power Inductor

### Whole Shield Type Inductor

**HDCDH Series : 8D28/8D38/8D43 Size**

**HDCDRH Series : 104/105 Size**

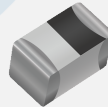
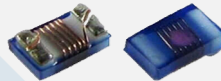
**HDSFD Series : 2D11/2D11HP/4D18/4D28/5D18/5D28/6D28 Size**

**HSDSRH Series : 73/74/124/125/127 Size**

**HDSL Series : 0628/0645/0745/0755/10145/12555 Size**

### No Shield (CD) Type Inductor

**HDSD Series : 32/43/54/75 Size**



## Power Inductor

### Multilayer Chip Inductor

**HDFL Series (Ferrite) : 1608/2012/2016/2520 Size**

### Molding Inductor

**HPIM Series (small size) : 201610/252010 Size**

**HAPM Series (big size) : 0420/0530/0630/1040/1335/1350 Size**

### Power Inductor Wire Wound (NR) Type

**HPIA/HPIAL Series (Alloy) : 201608/252008/201610/252010/252012/3012/3015 Size**

**HPIE Series (Ferrite) : 201608/201610/252008/202010 Size**

**HPIH Series (Ferrite) : 201610/252010/252012 Size**

**HPIT Series (Ferrite) : 252010/252012/3010/3012/3015/4012/4018/4020/4030/  
5020/5040/6028/6045/8040/8065 Size**

#### Specification:

Power inductors are an essential component in the voltage regulator topology. Virtually every circuit that regulates power in automobiles, electronics and DC-DC converters requires an inductor.

- \* 100% Lead-Free
- \* RoHS REACH Compliant
- \* Operation temperature: -40 to +125°C
- \* Low power loss and high efficiency
- \* High reliability and high performance

#### Applications:

- \* Automotive Power Conversion
- \* DC/DC Converters \* High-current PoL
- \* Switch-mode Power Supplies
- \* Power Supplies \* Digital Product
- \* Network Communication \* Smart phone, Tablet, Portable devices





Type	Series	Operating Temperature Range (°C)	Rate Voltage Range (V.D.C.)	Capacitance Range (µF)	Load Life (Hours)	PIC	Type	Series	Operating Temperature Range (°C)	Rate Voltage Range (V.D.C.)	Capacitance Range (µF)	Load Life (Hours)	PIC	
Miniature	RLK	-40~+105	400 ~ 450	4.7~100	2000		High Temperature	RLW	-40~+125	10 ~ 50	3.3-3900	1000~2000		
Low Profile	RLM	-40~+85	4 ~ 50	0.1~470	2000			RLX	-40(-25)~+130	160 ~ 450	1.5 ~ 220	3000 ~ 4000		
	RKF	-40~+105	4 ~ 50	0.1~100	1000			RLL	-25~+130	160 ~ 450	1.5 ~ 100	5000 ~ 6000		
	RSC	-40~+85	6.3 ~ 63	0.1~470	2000		Low Leakage	RFM	-40~+105	6.3 ~ 100	0.1~3300	2000		
	RKS	-40~+105	6.3 ~ 50	0.1~220	1000			Low Impedance	RGF	-40~+105	6.3 ~ 100	3.3~4700		1000 ~ 4000
	General Purpose	RGR	-40~+85	6.3 ~ 250	0.1~33000		2000		RGE	-40~+105	6.3 ~ 100	15~3900		3000 ~ 6000
-25~+85			350 ~ 450	RRC					-40~+105	6.3 ~ 50	15~3900	4000 ~ 10000		
RRL		-40~+105	6.3 ~ 250	0.1~22000	2000		BL-Polar	RNB	-40~+85	6.3 ~ 100	0.47~6800	2000		
		-25~+105	350 ~ 450					RFB	-40~+105	6.3 ~ 100	0.47~1000	2000		
RRA		-25~+105	400 ~ 500	2.2-47	2000			RNE	-40~+85	500 ~ 100	1-68	2000		
Long Life /High Reliability		RRN	-25~+105	200 ~ 450	22~270		2000	Snap-in & Screw	RLP	-40~+85	10 ~ 100	56~82000	2000	
	RRZ	-40(-25)~+105	160 ~ 450	1~220	3000		-25~+85			160 ~ 450				
	RMZ	-40(-25)~+105	160 ~ 450	1~220	5000		RHP		-40~+105	10 ~ 100	47~56000	2000		
	RFZ	-40(-25)~+105	160 ~ 500	10~331	8000 ~ 10000		-25~+105		160 ~ 450	56~47000	2000			
RLZ		-40(-25)~+105	160 ~ 500	1~220	10000 ~ 12000		RIP		-40~+105	10 ~ 100	56~47000	5000		
Super low Temperature	RGK	-55~+105	160 ~ 500	1~220	2000~5000				RCP	-55~+105			160 ~ 450	
							RPN		-40~+85	10 ~ 100	270~680000	2000		
									-25~+85	160 ~ 450				
									RMN	-40~+105	10 ~ 100	180~680000	2000	
										-25~+105	160 ~ 500			

**Specifications:**

- \* Diameter: Φ4mm – Φ22mm
- \* Voltage: 6.3V – 500V
- \* Capacitance: 0.1µF – 680,000µF
- \* ESR: as low as 10mΩ
- \* Load Life: up to 12,000 hours (105C) or 6,000 hours (130C)
- \* Operating temperature range: -55°C to +130°C

**Applications:**

- \* Power supplies for servers, telecommunications and industrial applications
- \* DC-DC converters
- \* DC link capacitors for drivers
- \* Inverters for photovoltaic
- \* Converters in wind power plants
- \* UPS systems
- \* Medical devices
- \* Special types are used for energy storage, for example in photoflash or strobe applications or for signal coupling in audio applications.

