CBS Europe Srl

FORNITORE di COMPONENTI ELETTRONICI

WE PROVIDE ***SOLUTIONS*** *THROUGH* ***INNOVATION***

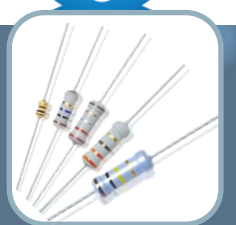
- ***Focused*** *on passive & interconnection components*
- ***Face-to-Face*** *Customer Mannufacturer*
- *E-Commerce* ***B2B***

La CCTC (CHAOZHOU THREE-CIRCLE GROUP) è un gruppo industriale attivo dal 1970 e quotato nelle borse di Shenzhen (300408.SZ) e Hong Kong (6951.HK), focalizzato nello sviluppo di condensatori ceramici multistrato (MLCC), substrati ceramici, packaging per semiconduttori, componenti per comunicazioni ottiche ed materiali elettronici avanzati. Con oltre 26.000 dipendente totali, negli ultimi 20 anni, risulta stabilmente tra le 100 principali aziende cinesi nel settore dei componenti elettronici e nella Top10 per la produzione di MLCC. La CBS fornisce supporto maggiormente nella distribuzione di condensatori ceramici MLCC grazie alla loro capacità produttiva passata da 10 a 70 miliardi di pezzi/mese in cinque anni che prevede di raggiungere i 100 miliardi nel 2026. La CCTC dispone di tecnologia proprietaria per la produzione, di certificazioni IATF 16949 e AEC-Q200 e offre una gamma che spazia dai formati 0201 al 2220, declinati in versioni standard, alta affidabilità, alta frequenza, alta resistenza meccanica.

CCTC
SINCE 1970








PRODUCTS

- Semiconductor-related precision ceramic structural components
- Semiconductor-related precision ceramic structural components
- Precision ceramic structural components in new energy and automotive field
- Precision ceramic parts for the chemical industry Resistors
- Precise ceramic parts for industrial equipment

-Multilayer Ceramic Chip Capacitor
- Resistor
Multilayer Chip Ceramic Inductor (MLCI)

- Ceramic Appearance Parts
- Ceramic Wearable Appearance Parts
- Automotive & Smart Home Ceramic Exterior Parts

- Ceramic ferrules
- Ceramic Sleeve
- Package for opto-communication
- Field Mountable Fiber Optic Connector
- MT ferrule and ceramic guide pin

- Glass and metal encapsulation
- SMD Ceramic package (PKG)
- Capillary

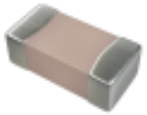
- Alumina Substrate
- Aluminum Nitride Substrate
- Electronic Paste
- Ceramic product
- Structural Ceramics
- Ceramic Rod

- Jet micro dispensing valve based on piezo technology

CTCC Founded

- Restructured into Chaozhou Three-circle Co., Ltd.
- Construction of CCTC Fengtang Industrial Park
- CCTC HK Established

1992



1998

MLCC Division Established

Guangdong Electronic Ceramics Technology R&D Center Established

2000

Package covers 0402 ~ 1206

2005

CCTC Nanchong Established

2007

Medium & High Pressure & Large Size

2010

High – frequency Cu internal electrode



2012

High strength «S» Serie



Listed on the Shenzen Exchange

2014

- Flexible electrode
- Small Size 0201

2015

Certified as Enterprise Technology Center

2016

Wireless charging

Acquistion or Vermes Microdispensing GmbH

2017

5G base station product introduction





Glory Winner Established

2019

AUTOMOTIVE Certificated

2020

- Xigang Plant in Chaozhou Established
-Construction Of Shenzen Electronic Technology Park





CCTC Deyang Established

2021

More Cover range

CCTC Chengdu Established

2022

High Capacitance
0402 / 475
0603 / 226
0805 / 476
1206 / 107

2023

High Capacitance
0201 / 105
0402 / 106
0603/ 106 35V
1210 / 227

2025

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Certification

IATF 16949 certificate has been passed, one after another into the car market;
AEC-Q 200 (Stress test qualification for passive components) passive components automotive-grade quality certification.

Introduction of advanced equipment

Introducing the most advanced production equipment in the industry to enhance technical capabilities.

IT-enabled system introduction

Promote division-wide **SAP system**, MES system, and **EAM** monitoring system for production equipment/metering equipment to improve equipment control capability and scientific management.



ISO45001



QC080000



ISO9001



ISO14001



IATF16949

Production Base

- China
- Thailand
- Germany

Sales Office

- China mainland
- Taiwan
- Japan
- South Korea
- Thailand
- Malaysia
- Philippines
- Vietnam
- India
- Germany
- USA



Sales office

Production base

MLCC OVERVIEW

Nanchong CCTC
MLCC Production Base

Deyang CCTC
MLCC-Auto Production Base

Shenzhen CCTC
MLCC Production Base

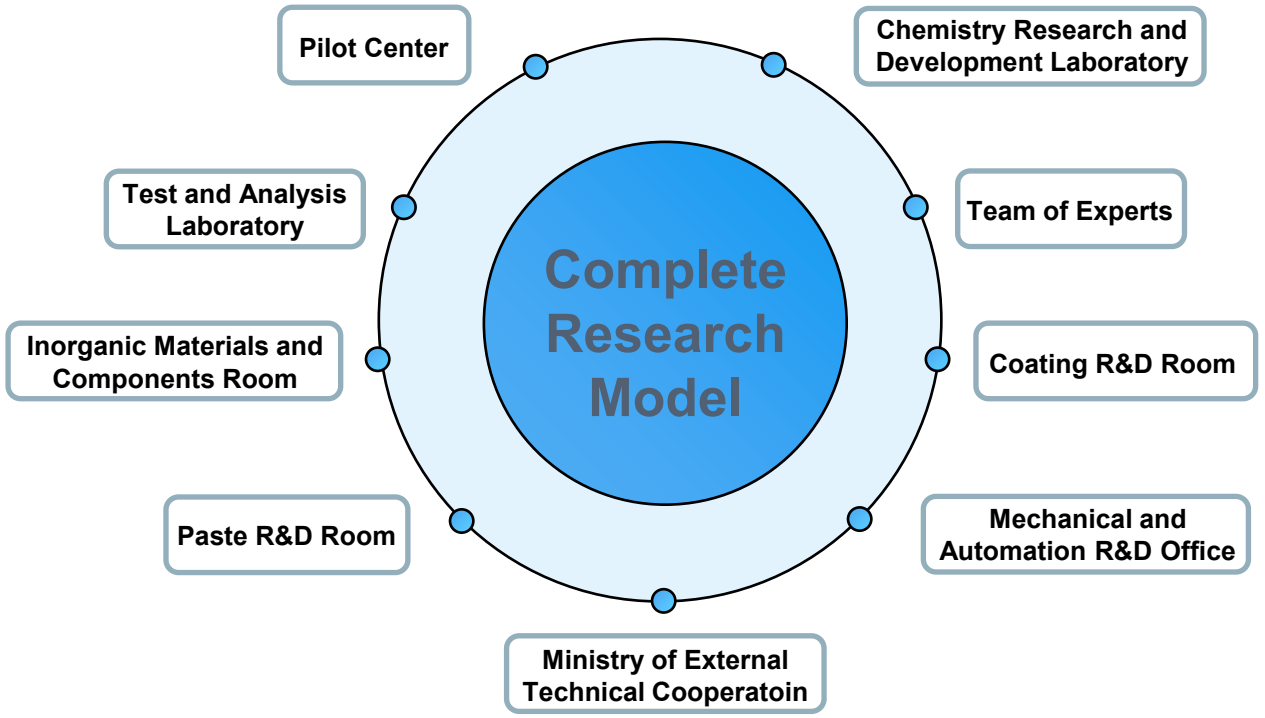
Chaozhou CCTC
MLCC-Auto Production Base

4 Production Bases

4000+ Employees Production Bases R&D Staffs: 550+ Quality Staffs: 400+

CCTC-Research Institute now has a R&D team of more than 2,000 people mainly consisting of PhDs, masters and senior engineers, and has a complete set of scientific research modes such as technology research and development, technology service, technology management, and results transformation.

With postdoctoral workstations, it strongly supports the national talent cultivation policy, gives postdoctoral talents a platform to continue research and scientific and technological innovation in their continuous efforts, accelerates the transformation of scientific and technological achievements, and makes the combination of industry, academia and research more closely.



RESEARCH INSTITUTE


Chaozhou CCTC


Chengdu CCTC


Shenzen CCTC


Deyang CCTC


Nanchong CCTC


Suzhou CCTC

PRECISION CERAMIC STRUCTURAL COMPONENTS



SEMICONDUCTOR-RELATED PRECISION CERAMIC STRUCTURAL COMPONENTS

Used for semiconductor, display panel, LED, PV and other semiconductor-related fields



PRECISION CERAMIC STRUCTURAL COMPONENTS FOR MEDICAL EQUIPMENTS/DEVICES

Applicable to medical diagnostic imaging, implantation devices, drug delivery and surgical instruments



PRECISION CERAMIC STRUCTURAL COMPONENTS IN NEW ENERGY AND AUTOMOTIVE FIELD

Used in solar energy,fuel cell,LED,automobile industry and etc



PRECISION CERAMIC PARTS FOR THE CHEMICAL INDUSTRY

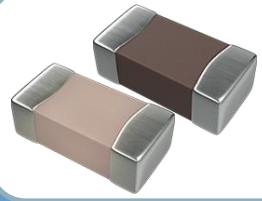
Chemical industry and petroleum industry



PRECISE CERAMIC PARTS FOR INDUSTRIAL EQUIPMENT

Powder crushing,textiles,papermaking,and other industrial fields

COMPONENTS



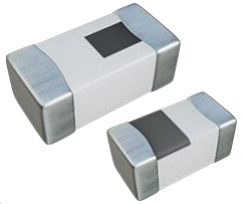
MULTILAYER CERAMIC CHIP CAPACITOR

Mainly supply household appliances, power supply, and lighting markets. Now already entered medical equipment and 5G communication fields



RESISTOR

Widely used in electronic circuits such as energy-saving lamps, LED lights, electronic rectifiers, chargers, household appliances, instruments and meters



MULTILAYER CERAMIC CHIP INDUCTOR (MCLI)

Mainly supply household appliances, power supply, and lighting markets. Now already entered medical equipment and 5G communication fields

OPTICAL COMMUNICATION



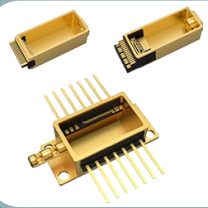
CERAMIC FERRULES

Widely used in optical devices of network transmission nodes, including fiber optic connectors, attenuators, and splitters



CERAMIC SLEEVE

Widely used in fiber optic adapters and components



PACKAGE FOR OPTO-COMMUNICATION

They are mainly applied in optical communication data transmission, laser marking, medical equipment, industrial cutting and other fields



FIELD MOUNTABLE FIBER OPTIC CONNECTOR

Widely used in FTTH Project, such as fiber optic transmission lines, fiber optic distribution frames and fiber optic testing instruments



MT FERRULE and CERAMIC GUIDE PIN

Used in MPO/MTP connector and high-speed optical module

CERAMIC APPARENCE



CERAMIC APPARENCE PARTS

Used for ceramic exterior parts of smartphone back covers, providing mass production services for numerous domestic and international mobile phone brands



CERAMIC WEARABLE APPARENCE PARTS

Applications include smart wearables (watches, rings), laptops, and earphones as decorative parts



AUTOMOTIVE & SMART HOME CERAMIC EXTERIOR PARTS

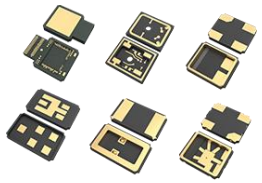
Used in car interiors (central control, gear knobs) for enhanced texture and durability; and in smart homes (door lock panels) for stain resistance, aesthetics and long life

PACKAGE



GLASS and METAL ENCAPSULATION

Used in household, commercial, special environmental applications and new energy vehicles compressor and terminal or electrical products



SMD CERAMIC PACKAGE (PKG)

It is used as package for Xtal Unit, OSC, TCXO, TSX, TF and SAW filters



CAPILLARY

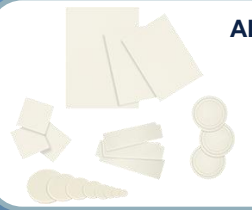
Semiconductor Packaging

ELECTRONIC MATERIAL

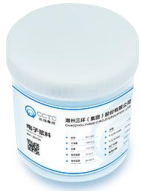


ALUMINA SUBSTRATE

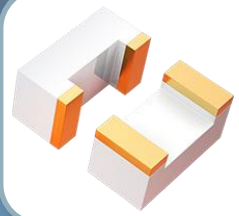
chip & network resistor, LED,high voltage focusing potentiometer,small potentiometer, crystal oscillator,thick film integrated circuit, DBC/DPC substrate,etc



ALUMINA NITRIDE SUBSTRATE



ELECTRONIC PASTE



CERAMIC PRODUCT

used in high-frequency chip inductors, chip micro-transformers, semiconductor module insulation, ceramic sealing, mechanical parts and other fields,Our products can be designed and produced according to customers' needs



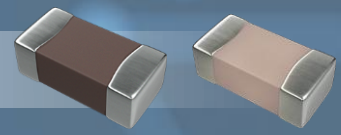
STRUCTURAL CERAMIC

Applied to drive bearing, hard disk magnetic frame, medical equipment and industrial machinery parts



CERAMIC ROD

Applied to the Home appliances, consumer electronics, automobiles, new energy and other fields



MORE THAN ANOTHER SOURCE • A POTENTIAL STRATEGIC SUPPLY PARTNER

Regular Products

Applications :
Used in surface mount operation, can adapt to a variety of narrow space
Structure :
Small size, high reliability

Medium and High Voltage Product

Applications :
Industrial Power Supply,Lighting industry, Appliance industry

Automotive Multi-Layer Ceramic Capacitors

Applications :
Car camera, car interior system, seat system, car display, car lights, etc
Structure :
The flexible electrode product is the best solution to solve the stress fracture of automotive electronic MLCC. The resin silver paste is added to the outer electrode, which can absorb the stress impact from the outside and avoid MLCC damage. Suitable for applications where stress cannot be avoided and high-end electronics.

MLCC for Energy Saving Lamp

Applications :
Lighting industry to solve PCB noise, wireless charging field
Advantages :
No ferroelectric effect, high strength, Suitable for high frequency applications

High Strength MLCC

Applications :
Industrial Power Supply,Lighting industry,Appliance industry
Advantages :
Comparing to increase thickness and electrode layers, this products improve the fracture problem of Class Ⅱ media in structure to enhance MLCC resisting external stress.

Soft Terminal MLCC

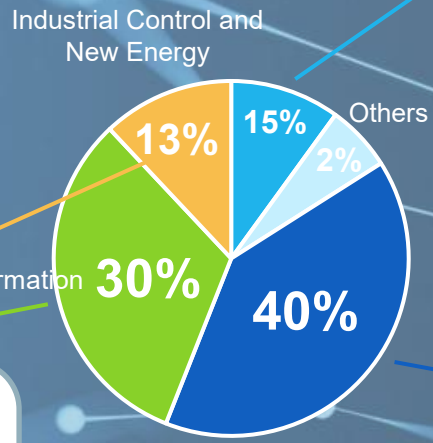
Applications :
Industrial power,Lighting industry
Advantages :
Flexible electrode products are the best solution to MLCC stress fracture. The external electrode can increase the resin silver paste to absorb the stress shock from the outside and avoid MLCC damage

360° — **PRODUCT COVERAGE**
Consumer, industrial, automotive and specialty families.

04 — **MANUFACTURING LOCATIONS**
Industrial footprint across multiple CCTC production bases.

R&D — **MATERIALS & TECHNOLOGY**
In-house material expertise and advanced MLCC development.

QMS — **QUALITY FRAMEWORK**
ISO 9001 and IATF 16949 referenced in CCTC materials.



Automotive Serie: high capacitance, high temperature, high reliability.

Product Coverage	
	Size: 0201 ~ 1210
	Capacitance: 0.1pF ~ 47uF
	Voltage proof: 6.3V ~ 100V

Industrial Serie: high capacitance, high temperature voltage in AI server.

Product Coverage	
	Size: 0402 ~ 1210
	Capacitance: 0.1pF ~ 100uF
	Voltage proof: 2.5V ~ 100V

Consumer Serie: covers applications in smart terminals, home appliances, and more.

Product Coverage	
	Size: 0105 ~ 2220
	Capacitance: 0.1pF ~ 220uF
	Voltage proof: 6.3V ~ 2000V



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