UP-RISING STAR- Manufacturer OF / MLCC | Plate-type multilayer porcelain dielectric capacitor-Native rookie





Local enterprises, Japan and Taiwan background

The entrepreneurial team comes from Taiwan Guoji, Huake, Housheng, Dafang and other well-known enterpris es in the same industry. The product manager has been in Guoju for 7 years and Dafang for 12 years, and the fo under is from the senior management of Housheng



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Smart factory planning





technical competence

The main production of main equipment supply, mainly Japanese, American and Taiwan suppliers, high stability, high efficiency, high precision, low fault, high manufacturing process, leading the industry.

Coating film thickness and electrode printing technology leading domestic counterparts



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Main material system



Key materials-high-capacity material development The K value is higher than that of its domestic counterparts



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Comparison of product design capabilities

Compare specifications 1206 NPO 103 630V

Product IR & BDV is better than Japanese, and DCbias is close to Japanese







structure		same as	open a way	high-handed	Soft end	high frequency	Soft end series
material	dielectric layer	X7R/X6S/X5R/C0G/ M3L	X7R	X7R/C0G	X7R/C0G	C0G	X7R
	The electrode layer	Ni	Ni	Ni	Ni	Cu	Ni
	End electrode	Cu/Ni/Sn	Cu/Ni/Sn	Cu/Ni/Sn	Cu/Ni/Ag(Cu)/Sn	Cu/Ni/Sn	Cu/Ni/Ag(Cu)/Sn
Plate bending ability		General-purpose: ≥1mm Vehicle (X7R): ≥2mm Vehicle (C0G): ≥3mm	General-purpose: ≥1mm	General-purpose: ≥1mm Vehicle (X7R): ≥2mm Vehicle (C0G): ≥3mm	General-purpose: ≥3mm Vehicle: ≥5mm	General-purpose: ≥1mm Vehicle: ≥3mm	General-purpose: ≥3mm Vehicle: ≥5mm
characteristic	merit	The range of capacity is wide	Prevent short circuit	High pressure resistance (> =1kV)	Anti-plate bending strong The range of capacity is wide	High frequency features are good High Q value	Anti-plate bending strong Prevent short circuit
	shortcoming		The range of capacity is narrow	The range of capacity is narrow	The range of capacity is narrow		The range of capacity is narrow
apply		general service	Power supply, socket	high-tension line	source Car / industry	high frequency line	Connecer, interface end

Piticular ceramic capacitor MLCC Capacitance size covers 01005~2220, and product types span the consumer / industrial / automotive sector.



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Production capacity planning





Part of the case



JIVPE

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Zero defect strategy



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Customer complaint feedback process



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labware AEC-Q200

surface:

The visual microscope will visually inspect the product for defects

size:

Specification for the physical dimensions of the test capacitor components

Damstruction physical test: A pair of components samples were dissected, as well as back and backward The whole process of a series of tests and analysis.

Electrical test: 1. Digital electric bridge

Impedance tester
 The withstand pressure tester

solderability: Tin furnace-Determine whether the material is suitable for welding and during the welding process There will be welding difficulties or welding defects















Plate bending test, thrust test: universal material testing machine

Solubility: 1. Solvent reagent 2. stereatic microscope 3. Digital bridge 4. Impedance tester5. The withstand pressure tester

Hot and cold impact: Three boxes of cold and hot shock box and a test product in the surrounding atmospheric temperature changes sharply Of the quality and reliability of the same

Constant temperature and humidity (temperature change), constant temperature and humidity (load): Used to test products to ensure reliability, ensure and improve product quality Improve credibility













Life test: 1. Life-time testing machine 2. The DC power supply device 1 determines the product under the specified conditions of use and built reaction of the specified of maintenance The service life

mechanical shock: Mechanical impact test machine 1 determines the materials of the capacitive components in the collision process The ability to absorb the energy

mechanical vibration: Mechanical vibration test machine 1 the vibration load of the product in the specified severity Under the ability to maintain its working characteristics and integrity

Electrostatic test: Electrostatic tester a test whether the static electricity generated in the actual use will produce Product damage or cause a decline in product performance

Characteristics of tolerance value changing with temperature: The purpose of the test is to determine that the product is stored in a climate Adaptability of storage, transportation and use













Car rules application









Special line management



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Material analysis for the experimental equipment

Scanning electron microscopy (SEM / EDS)

1. Principle:

Scanning electron microscope (Scanning Electron Microscope, SEM), sweeps over the surface of a sample using a fine focused electron beam Various physical signals arise to modulate imaging in a commonly used instrument for microscopic

- Application:
 Description:
 Such as: ceramic original powder, nickel pulp, copper pulp, rare earth mixture and so

- Surface quarty analysis.
 Such as: coating uniformity, printing quality, end electrode combustion, electroplating layer analysis
 Product metallographic analysis: Such as: ceramic powder sintering condition, capture density, electrode layer sintering condition, end electrode burning condition, electroplating layer density and other microscopic detection
 elemental analysis Such as: rare earth mixture analysis, ceramic powder composition analysis, foreign body element
- analysis and so on 5 Product failure analysis

Specific Surface Area Analyzer (BET)

1. Principle With nitrogen as the adsorbent substance and nitrogen as the carrier gas, the two gases are mixed in a certain proportion to reach the specified relative pressure, and then flow through the solid material. When the sample tube is put into the liquid nitrogen for heat preservation, the sample is physically adsorbed to the nitrogen in the mixed gas, while the carrier gas is not adsorbed. At this time, the adsorption peak appears on the screen. When the liquid nitrogen is removed, the sample tube is back at room temperature, the adsorption peak appears on the screen. When the liquid nitrogen is removed, the sample tube is back at room temperature, the adsorption amount of the sample tube desorption peak appears on the screen. Finally, a known volume of pure nitrogen was injected in the mixture to obtain a corrected peak. Based on the peak area of the corrected and deattached peaks, the adsorption amount of the sample at this relative pressure is calculated. Changing the mixing ratio of nitrogen and carrier gas can measure the adsorption amount under the relative pressure of several nitrogen, so that the specific surface cane be calculated according to the BET formula
2. Application
The specific surface area and porosity of nano-ceramic powder affect the strength, appearance and density of ceramic body sintering curing and finished product. The specific surface area of the addition also affects the contraction of the ceramic body and the ceramic sintering situation







Certified resume

