

EMI、EMC對策用元件专家

EMI MULTILAYER CHIP

MATERIAL SAFETY DATA SHEET

Chemical Product Name: EMI Multilayer Chip



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MATERIAL SAFETY DATA SHEET

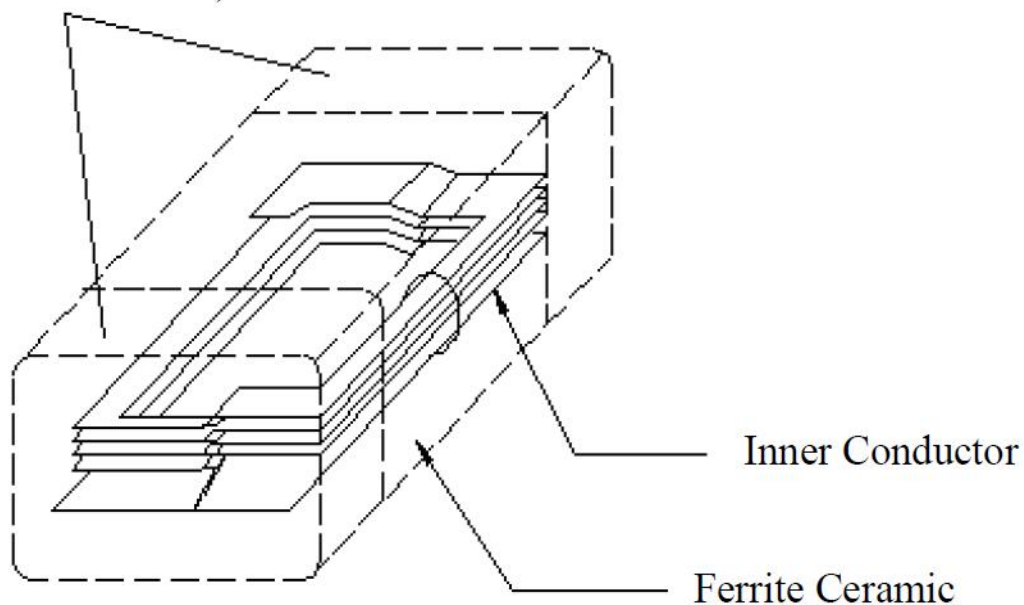
EMI MULTILAYER CHIP

© Composition/Information or Ingredients:

Substance / Mixture:

Components-Chemical Name	CAS Number	Percent
Iron Oxide	1309-37-1	~50%
Nickel Oxide	1313-99-1	~13%
Zinc Oxide	1314-13-2	~20%
Copper Oxide	1317-38-0	~10%
Bismuth Oxide	1304-76-3	~1.5%
Cobalt Oxide	1308-04-9	~0.5%
Outer Conductor	7440-31-5	~2.5%
Inner Conductor	7440-22-4	~2.5%

Outer Conductor (Terminal Paste)



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Construction	Materials	Wt%	Lead (Pb)	L/F
Outer Conductor (Terminal Paste)	Silver + Glass	2.5wt%	<1000ppm	OK
	Copper Plating		<90ppm	
	Nickel Plating		<90ppm	
	Matte Tin plating		<1000ppm	
Inner Conductor (Circuit)	Silver + Glass	2.5wt%	<90ppm	OK
Ferrite Ceramic Body	Iron Oxide	95wt%	<90ppm	OK
	Nickel Oxide		<90ppm	
	Zinc Oxide		<90ppm	
	Copper Oxide		<90ppm	
	Bismuth Oxide		<90ppm	
	Cobalt Oxide		<90ppm	

Remark:

* Regarding request of Lead-Free contain of this component, we like to show the raw materials composition and component construction as above.

* According to RoHS regulation's annex item7, point 4, about lead and its compound, lead free request will be not applicable to lead included in electronic ceramic component.

* It is the lead contained in this part's electronic magnetic ceramics body. The lead contained here is necessary for low temperature co-fired of different material and will meet RoHS exemption clause.

◎ Hazards Identification:

Physical and chemical hazards: NA
Adverse human health hazard: NA
Environmental effects: NA

◎ First aid Measures:

Eye contact:
Rinse with good general purpose eye wash
Skin contact:
Wash off with soap and water
Inhalation:
Terminate exposure and move to fresh air. Seek medical advise
Ingestion:
Induce drinking of copious quantities of water. Seek medical advise

◎ Fire Fighting Measures:

Flash point: Non flammable
Explosion Limit: NA
Fire-fighting instructions: NA
Extinguish Media: NA

◎ Accidental Release Measures:

Sweep up into containers. Use appropriate protective clothing; gloves; safety glasses and dustmasks if required

◎ Handling And Storage:

Handling:
Fragile, avoid collision and stress
Storage:
Store in clean, dry, well-ventilated environment. Avoid stress

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© Exposure Controls, Personal Protection:

Exposure Guidelines: NA

Engineering Measures: NA

Protective Equipment: NA

Respiratory Protection: NA

Eye Protection: Safety glasses

Hand, Skin and Body Protection: Protective glove, clothing

© Physical And Chemical Properties:

Appearance: Black

Boiling Point: NA

Vapour Pressure: NA

Melting Point: NA

Specific Gravity: 5g/cm³

Solubility(in water): Insoluble

© Stability And Reactivity:

Chemical Stability: Stable

Incompatibility With Other Materials: Stable

Hazardous Decomposition Products: NA

Hazardous Polymerization: NA

© Toxicological Information:

Corrosive and Irritant properties: NA

Allergenic and Sensitizing Effects: NA

Acute Toxicity: NA

Sub-Acute Toxicity: NA

Chronic Toxicity: NA

Carcinogenic Effects: NA

Mutagenic Effects: NA

Effects On The Reproductive System: NA

Teratogenic Effects: NA

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© Ecological Information:

Biodegradability: NA

Bioaccumulation: NA

Fish Toxicity: NA

Other Information: NA

© Disposal Considerations:

NA

© Transport Information:

UN Class: NA

UN Number: NA

© Regulatory Information:

Japan Status

EXISTING CHEMICAL SUBSTANCES(MITI): NA

US Status

TSCA INVENTORY: NA

EU Status

EINECS: NA

Labelling According To EEC Directives: NA

Hazard Symbol: NA

Risk Phrases: NA

Safety Advices: NA

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility

© Other Information:

References: No specific notes

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Please consult the KINGCORE INC. for further information