

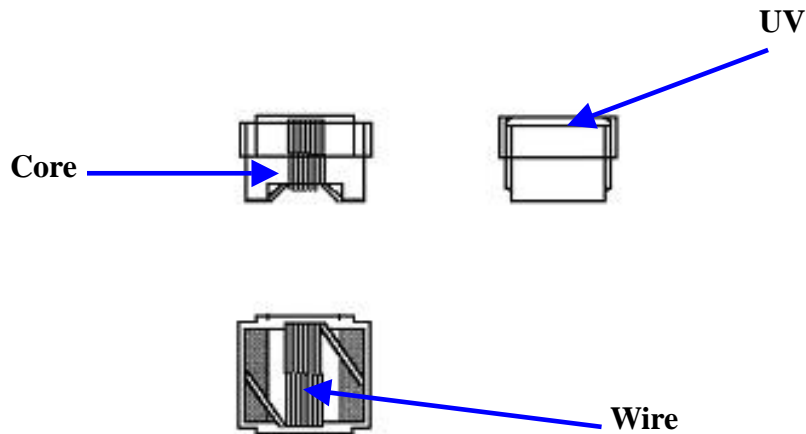
MAG LAYERS USA, Inc

Material description

Component type :

High Frequency Wound Ceramic Chip Inductor HFC-2012 SERIES

Description :



Terminal : Ag/Ni/Sn all (Lead free alloy)

Ni= $4\pm 2 \mu\text{m}$; Tin= $5\pm 2 \mu\text{m}$.

Solder Profile: Temperature up to 250 degree C (10 seconds)

Solder Material H63A (Eutectic solder) or equal



MAG LAYERS USA, INC
1502 Brookhollow Dr, Suite C
Santa Ana, CA 92705

(800) 427-4010
(714) 427-5834 fax
www.maglayersusa.com



Test Report

No.: GZSCR031004590/LP

Date: OCT 15, 2003

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CHAOZHOU THREE-CIRCLE (GROUP) CO., LTD.
SANHUAN INDUSTRIAL DISTRICT,
FENG TANG, CHAOZHOU, GUANGDONG

Report on the submitted sample said to be CERAMIC CORES FOR FIN PLATED CHIP INDUCTORS
镀锡片式电感瓷芯

62820841

Buyer : ~~达而泰~~ 达而泰(天津)
Manufacturer : 潮州三环(集团)股份有限公司
Sample Receiving Date : OCT 09, 2003
Testing Period : OCT 09, 2003 TO OCT 15, 2003

Test Requested : As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample

Test Method : Lead content - with reference to EPA method 3050B: 1996 / other acid digestion.
Cadmium content - with reference to EN1122: 2001 method B / other acid digestion.
Mercury content - with reference to EPA 3052 / other acid digestion.
Hexavalent Chromium content - with reference to EPA 3060A & EPA 7196A / other acid digestion.
Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES)

RESULTS

White ceramic w/ silver metal

Lead content (Pb)(ppm)	61
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

Note : - N.D. = Not Detected (< 2 ppm)
- ppm = mg/kg
- Results shown are of the total weight of dry sample

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.

Xie Yongbiao, Sam
Dept. Manager

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GZCM 101717

ALS TECHNICHEM (M) SDN BHD

(117984-P)

9, Jalan Astaka U8/84, Seksyen U8, Bukit Jelutong, 40150 Shah Alam, Selangor.
 Tel: (603) 7845 8257 Fax (603) 7845 8258 E-mail: alst@po.jaring.my

**ALS Technichem****ANALYSIS REPORT**

DATE : 24 December 2002

Page 1 of 1

OUR REF. : ATHQ/24107EV/2002(A)

COMPANY : Elektrisola Malaysia Sdn Bhd
 Jalan Damai Satu, Janda Baik,
 28750 Bentong, Pahang.
 Tel: 09-2330888 Ext: 166 Fax: 09-2330715
 (Attn.: Dr. Chang I-Kwang)

DATE SAMPLE RECEIVED : 28 November 2002

SAMPLE DESCRIPTION : One enameled copper wire sample

ANALYSIS RESULTS

(As per sample)

Test Parameters	Units	Results	Method Reference
Lead	mg/kg	< 10	Acid digest / ICP-AES
Cadmium	mg/kg	< 0.1	Acid digest / ICP-AES
Chromium VI	mg/kg	< 1	Colorimetric
Antimony	mg/kg	< 10	Acid digest / ICP-AES
Arsenic	mg/kg	< 5	Acid digest / ICP-AES
Beryllium	mg/kg	< 1	Acid digest / ICP-AES
Cobalt	mg/kg	2	Acid digest / ICP-AES
Mercury	mg/kg	< 0.1	Acid digest / Cold Vapor
Tin	mg/kg	< 10	Acid digest / ICP-AES
Selenium	mg/kg	< 10	Acid digest / ICP-AES
Thallium	mg/kg	< 5	Acid digest / ICP-AES
Nickel	mg/kg	8	Acid digest / ICP-AES
Boron	mg/kg	< 20	Acid digest / ICP-AES
Manganese	mg/kg	< 1	Acid digest / ICP-AES
Zinc	mg/kg	< 1	Acid digest / ICP-AES

Nurida Mohd Yusop
 BSc. (Hons) Chemistry, AMIC
 Asst. Technical Manager

XIAMEN WELL-TA CHEMICAL COMPANY LIMITED
LINGDOU ZONE HECUO VILLAGE
KAIYUAN DISTRICT XIAMEN

Report on the submitted sample said to be UV COATING, EPOXY RESIN ADHESIVE-1,
EPOXY RESIN ADHESIVE-2, EPOXY RESIN COATING

Sample Receiving Date : OCT 29, 2003
Testing Period : OCT 29, 2003 TO NOV 04, 2003

Test Requested : 1) As specified by client, to determine the Cadmium Content in the submitted sample.
2) As specified by client, to determine the Lead Content in the submitted sample.
3) As specified by client, to determine the soluble elements content with reference to the European Standard on Safety of Toys, EN71 Part 3: 1994 (including amendment A1:2000) - Migration of Certain Elements.

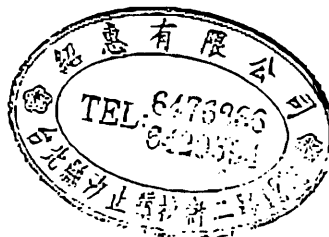
Test Method : Please refer to next page.

RESULTS : Please refer to next page.

Conclusion : When tested as specified, the submitted samples comply with the Stated requirement of the European Standard EN71 Part 3 : 1994 (including amendment A1:2000).

Signed for and on behalf of
SGS-CSTC Ltd.

Xie Yongbiao, Sam
Dept. Manager



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GZCM 107250

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002-86-22-25760380

Test Report

No.: GZSCR031006741/LP

Date: NOV 04, 2003

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Results:

1) Cadmium Content (With reference to EN1122 : 2001 method B / other acid digestion, Atomic Absorption Spectrometry.)

	No.1	No.2	No.3	No.4
Cadmium Content (Cd)(mg/kg)	<2	<2	<2	<2

2) Lead Content (With reference to EPA method 3050B: 1996 / other acid digestion, Atomic Absorption Spectrometry.)

	No.1	No.2	No.3	No.4
Lead content (Pb) (mg/kg)	2	3	5	2

3) Soluble Elements Content (With reference to EN71 Part 3 : 1994 + A1:2000, Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES))

Element	No.1	No.2	No.3	No.4	Limit
Soluble Lead (Pb)	<5	<5	5	<5	90 mg/kg
Soluble Antimony (Sb)	<2	<2	32	<2	60 mg/kg
Soluble Arsenic (As)	<2	<2	<2	6	25 mg/kg
Soluble Barium (Ba)	<5	<5	<5	<5	1000 mg/kg
Soluble Cadmium (Cd)	<5	<5	<5	<5	75 mg/kg
Soluble Chromium (Cr)	<5	<5	<5	<5	60 mg/kg
Soluble Mercury (Hg)	<2	<2	<2	<2	60 mg/kg
Soluble Selenium (Se)	<5	<5	<5	<5	500 mg/kg

Specimen Description:

No.1 Brown plastic piece (UV coating) UV-500

No.2 Gray plastic piece (epoxy resin adhesive-1) 9001 系列

No.3 Blue plastic piece (epoxy resin adhesive-2) 6060 RP.

No.4 Lt. blue plastic piece (epoxy resin coating)



Note : - < = Less Than

- ppm = mg/kg

- Results shown are of the total weight of dry samples

- Results of soluble elements shown are of the adjusted analytical results.

*** End of Report ***

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GZCM 107251