



# RoHS

## Test Report

NTS2103569R

Date: March 17, 2021

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**Applicant :** Chengdu Mengsheng Electronic Co., Ltd.

Address : No. 99, Jieneng Avenue, HuaiKou Town, Jintang County, Chengdu City, Sichuan, China

**Manufacturer :** Chengdu Mengsheng Electronic Co., Ltd.

Address : No. 99, Jieneng Avenue, HuaiKou Town, Jintang County, Chengdu City, Sichuan, China

The following sample(s) was/were submitted and identified on behalf of the clients as : **EMI Filter**

Model No. : **DBI5-6A**, DAA1-1A, DAA1-3A, DAA1-6A, DAA1-10A, DAP1-1A, DAP1-2A, DAP1-3A, DAP1-6A, DAP2-1A, DAP2-3A, DAP2-6A, DBA3-1A, DBA3-3A, DBA3-6A, DBA3-10A, DBA3-20A, DBA4-10A, DBA4-20A, DAI1-1A, DAI1-3A, DAI1-6A, DAI1-10A, DBI5-1A, DBI5-3A, DBI5-10A, DBI6-1A, DBI6-3A, DBI6-6A, DEA4-3A, DEA4-6A, DEA4-10A, DEA4-16A, DEA4-20A, DEA5-20A, DEA5-30A

Trade mark: dorex

Date of Sample Received : March 09, 2021

Testing Period : March 09, 2021 – March 17, 2021

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Dibutyl Phthalate (DBP), Benzylbutyl Phthalate (BBP), Bis-(2-ethylhexyl) Phthalate (DEHP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 & 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of

**Shenzhen NOWD Testing Services Co., Ltd.**

*Jeremy Xie*

Jeremy Xie  
Approved Signatory



**Nowd Testing Services Co., Ltd.**

<http://www.nowd.com.cn>



Hotline: +86-755-2783 0065

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### Restriction of Hazardous Substances Directive (RoHS), 2011/65/EU

List of Analytes and their Corresponding Test Methods [ European Council Directive 2011/65/EU ] :		
Name of Analytes		Test Method(s)
<b>Pb</b>	Lead (Pb)	With reference to EN 62321-5: 2014; by ICP-OES.
<b>Cd</b>	Cadmium (Cd)	
<b>Hg</b>	Mercury (Hg)	With reference to EN 62321-4: 2014; by ICP-OES.
<b>Cr<sup>6+</sup></b>	Chromium VI (Cr VI)	<u>Metal</u> : With reference to EN 62321-7-1: 2015.. <u>Polymers &amp; Electronics</u> : With reference to EN 62321-7-2: 2017. using UV-Vis.
<b>PBBs</b>	Polybrominated Biphenyls (Sum of PBBs)	With reference to EN 62321-6: 2015, by GC-MS.
	Bromobiphenyls	
	Dibromobiphenyls	
	Tribromobiphenyls	
	Tetrabromobiphenyls	
	Pentabromobiphenyls	
	Hexabromobiphenyls	
	Heptabromobiphenyls	
	Octabromobiphenyls	
	Nonabromobiphenyls	
	Decabromobiphenyl	
<b>PBDEs</b>	Polybrominated Diphenyl Ethers (Sum of PBDEs)	
	Bromodiphenyl ethers	
	Dibromodiphenyl ethers	
	Tribromodiphenyl ethers	
	Tetrabromodiphenyl ethers	
	Pentabromodiphenyl ethers	
	Hexabromodiphenyl ethers	
	Heptabromodiphenyl ethers	
	Octabromodiphenyl ethers	
	Nonabromodiphenyl ethers	



List of Analytes and their Corresponding Test Methods [ European Council Directive 2011/65/EU ] :		
Name of Analytes		Test Method(s)
	Decabromodiphenyl ether	
<b>Phthalate</b>	Bis-(2-ethylhexyl) Phthalate ( <b>DEHP</b> )	With reference to EN 62321-8: 2017. by GC-MS
	Benzylbutyl Phthalate ( <b>BBP</b> )	
	Dibutyl Phthalate ( <b>DBP</b> )	
	Diisobutyl phthalate ( <b>DIBP</b> )	
[a] The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.		



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### TEST RESULT

No.	TEST ITEMS		Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Hexavalent Chromium (Cr <sup>6+</sup> )	PBBs	PBDEs
			UNIT	ppm	ppm	ppm	ppm	ppm
	Limit	1000	100	1000	1000	1000	1000	
001	Plastic Enclosure	Black plastic	N.D	N.D	N.D	N.D	N.D	N.D
002	Metal enclosure	Silvery metal	16	N.D	N.D	N.D	--	--
003	Label	Matte silver sticker w/ Black printing	N.D	N.D	N.D	N.D	N.D	N.D
004	AC Inlet	Black plastic	N.D	N.D	N.D	N.D	N.D	N.D
		Silvery metal pin	11	N.D	N.D	N.D	--	--
005	Switch	Black plastic	N.D	N.D	N.D	N.D	N.D	N.D
		Silvery metal	18	N.D	N.D	N.D	--	--
		Black metal spring	22	N.D	N.D	N.D	--	--
006	Fuse holder contact	Coppery metal	15	N.D	N.D	N.D	--	--
007	Potting glue	Black resin	N.D	N.D	N.D	N.D	N.D	N.D
008	Inductor	Green Magnetic ring	9	N.D	N.D	N.D	N.D	N.D
		Coppery metal wire	N.D	N.D	N.D	N.D	N.D	N.D
009	Plug piece	Silvery metal	19	N.D	N.D	N.D	--	--
010	Electronic wire	Brown PVC jacket	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		Blue PVC jacket	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.



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No.	TEST ITEMS		Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Hexavalent Chromium (Cr <sup>6+</sup> )	PBBs	PBDEs
	UNIT		ppm	ppm	ppm	ppm	ppm	ppm
	Limit		1000	100	1000	1000	1000	1000
010	Electronic wire	Green/Yellow PVC jacket	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		Coppery metal wire	14	N.D.	N.D.	N.D.	-	-
011	Fuse	Transparent glass	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		Silvery metal	23	N.D.	N.D.	N.D.	--	--
012	Insulating gasket	Black plastic	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
013	Screw nut	Silvery metal	11	N.D.	N.D.	N.D.	--	--
014	Hot melt adhesive	Translucent plastic glue	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
015	X capacitor	Blue body	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		Silvery metal pin	17	N.D.	N.D.	N.D.	--	--
016	Insulating paper	Green Kraft paper	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
017	Screw	Silvery metal	20	N.D.	N.D.	N.D.	--	--
018	Resistor	Grey body w/ color ring	26	N.D.	N.D.	N.D.	N.D.	N.D.
		Silvery metal pin	17	N.D.	N.D.	N.D.	--	--
019	Tin	Silvery metal	13	N.D.	N.D.	N.D.	N.D.	N.D.
020	PCB	Green PCB w/ coppery metal	10	N.D.	N.D.	N.D.	N.D.	N.D.
021	Y capacitor	Blue body	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		Silvery metal pin	14	N.D.	N.D.	N.D.	--	--



No.	TEST ITEMS		Bis-(2-ethylhexyl) Phthalate (DEHP)	Benzylbutyl Phthalate (BBP)	Dibutyl Phthalate (DBP)	Diisobutyl phthalate (DIBP)
	UNIT		ppm	ppm	ppm	ppm
	Limit		1000	1000	1000	1000
001	Plastic Enclosure	Black plastic	9	N.D	N.D	N.D
003	Label	Matte silver sticker w/ Black printing	N.D	N.D	N.D	N.D
002	Knob / Decorative strip	Red plastic	N.D	N.D	N.D	N.D
004	AC Inlet	Black plastic	8	N.D	N.D	N.D
005	Switch	Black plastic	N.D	N.D	N.D	N.D
007	Potting glue	Black resin	N.D	N.D	12	N.D
010	Electronic wire	Brown PVC jacket	N.D	N.D	N.D	N.D
		Blue PVC jacket	N.D	N.D	N.D	N.D
		Green/Yellow PVC jacket	N.D	N.D	N.D	N.D
012	Insulating gasket	Black plastic	N.D	N.D	N.D	N.D
014	Hot melt adhesive	Translucent plastic glue	N.D	N.D	N.D	N.D
015	X capacitor	Blue body	N.D	N.D	N.D	N.D
016	Insulating paper	Green Kraft paper	N.D	N.D	N.D	N.D
020	PCB	Green PCB w/ coppery metal	N.D	N.D	N.D	N.D





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### Notes :

(1) The maximum permissible limit is quoted from the directive (EU) 2015/863 & 2011/65/EU, Annex II

### Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated



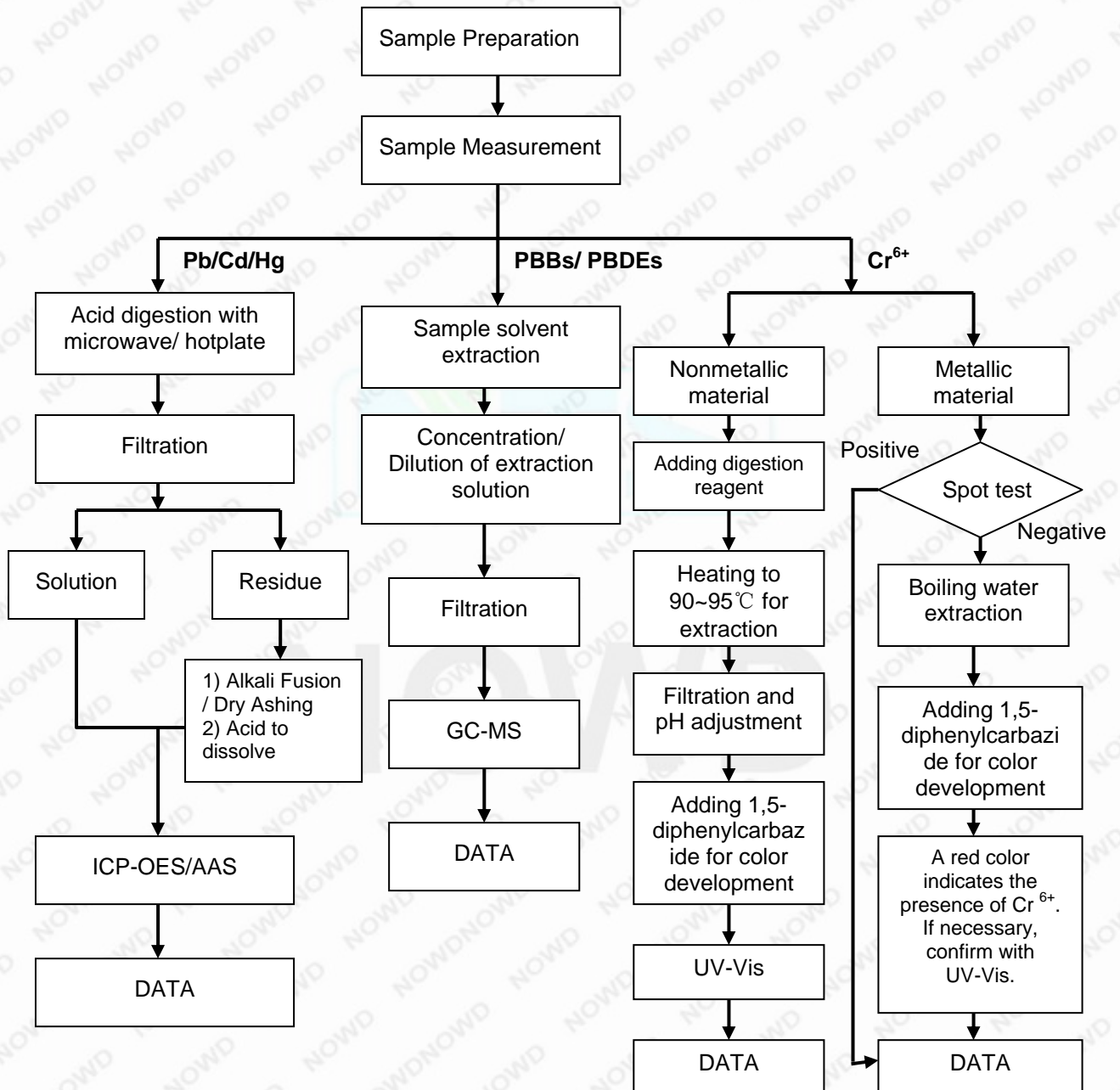
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### RoHS Testing Flow Chart

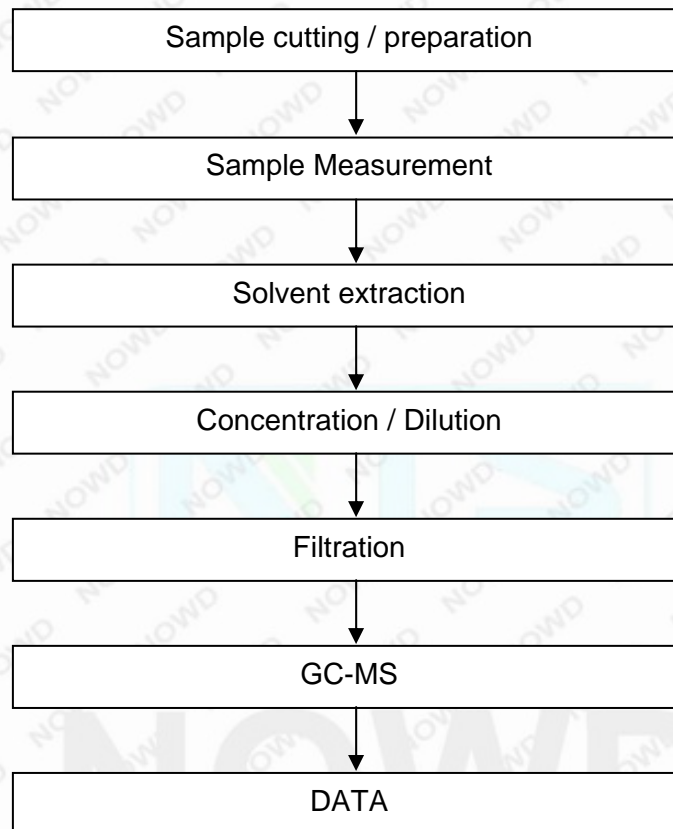
- 1) Name of the person who made testing: Susan Yu
- 2) Name of the person in charge of testing: David Chou
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).





### Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Susan Yu
- 2) Name of the person in charge of testing: David Chou



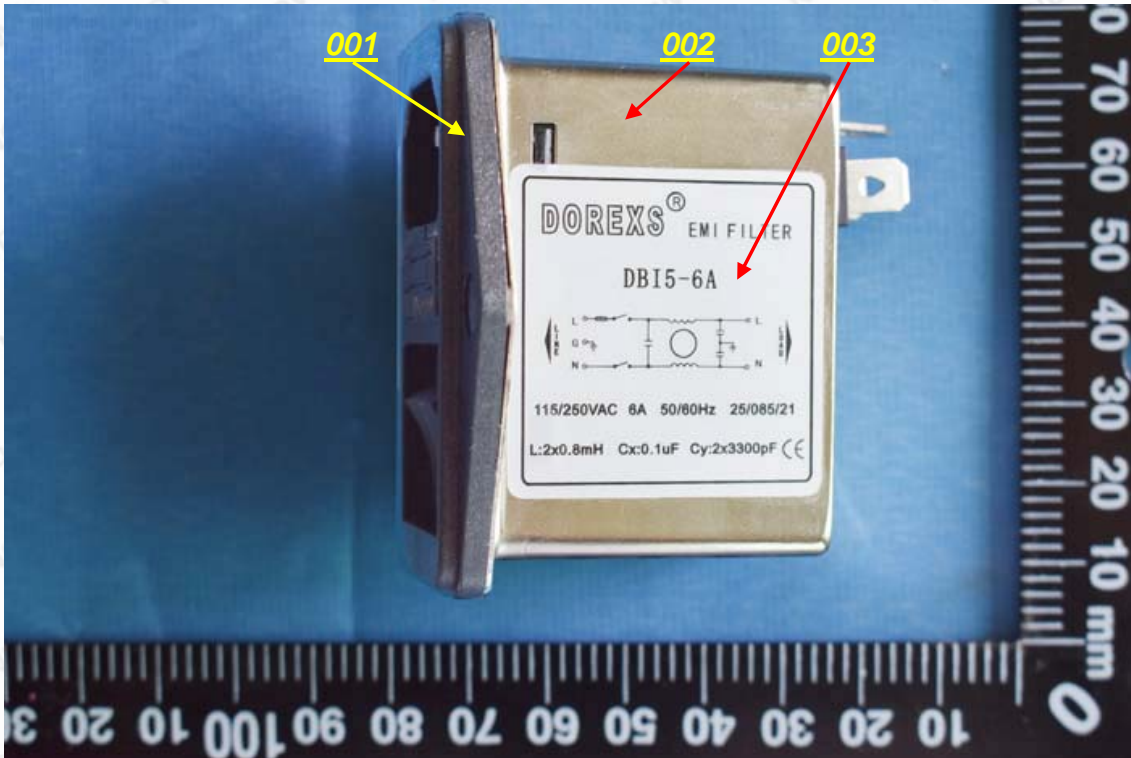
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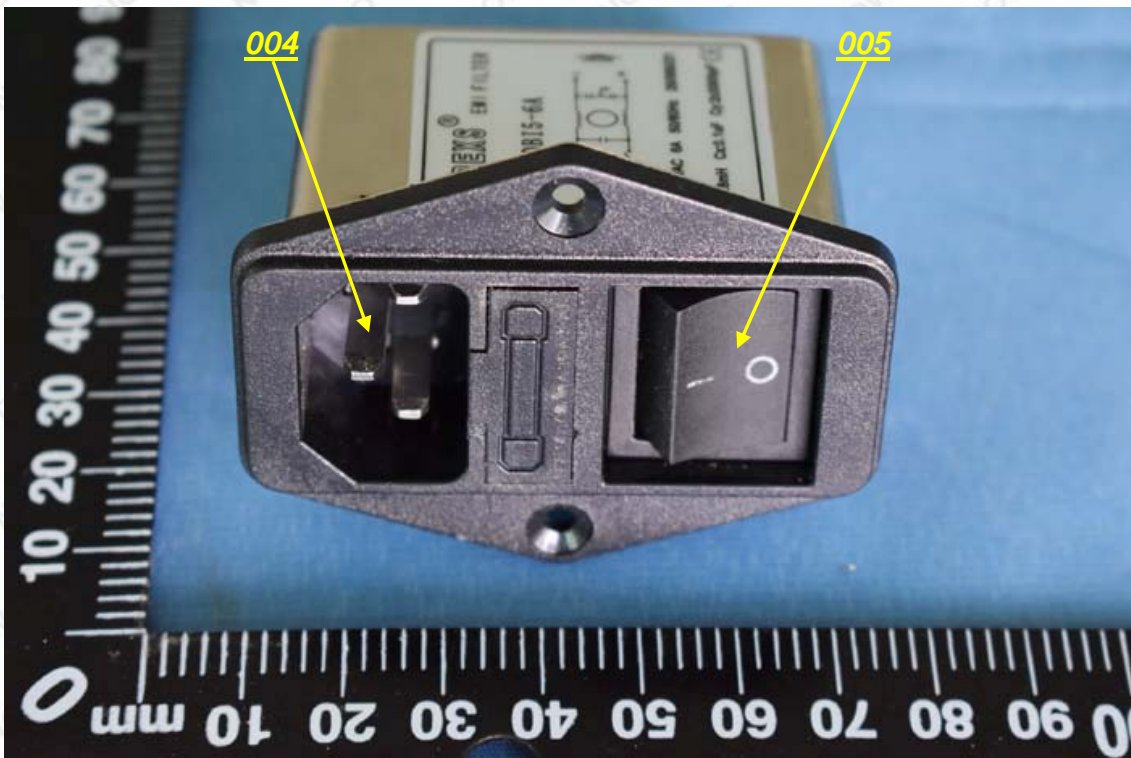
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### Photos



Model No.: DBI5-6A





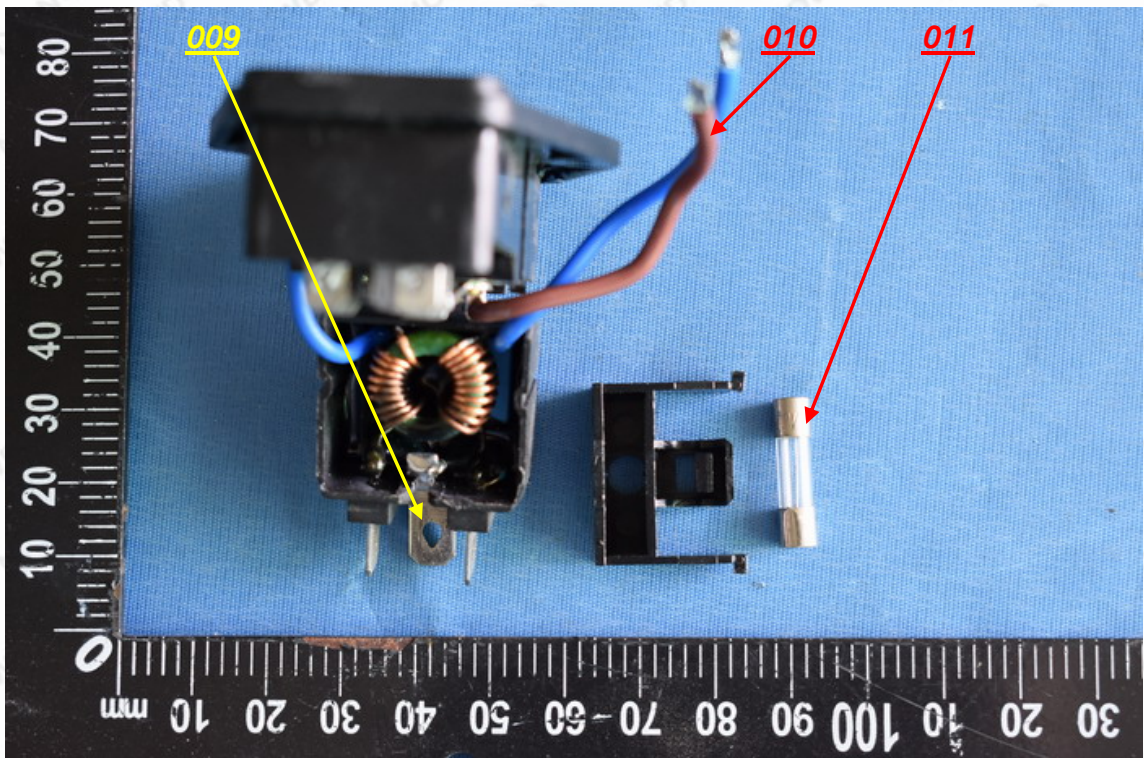
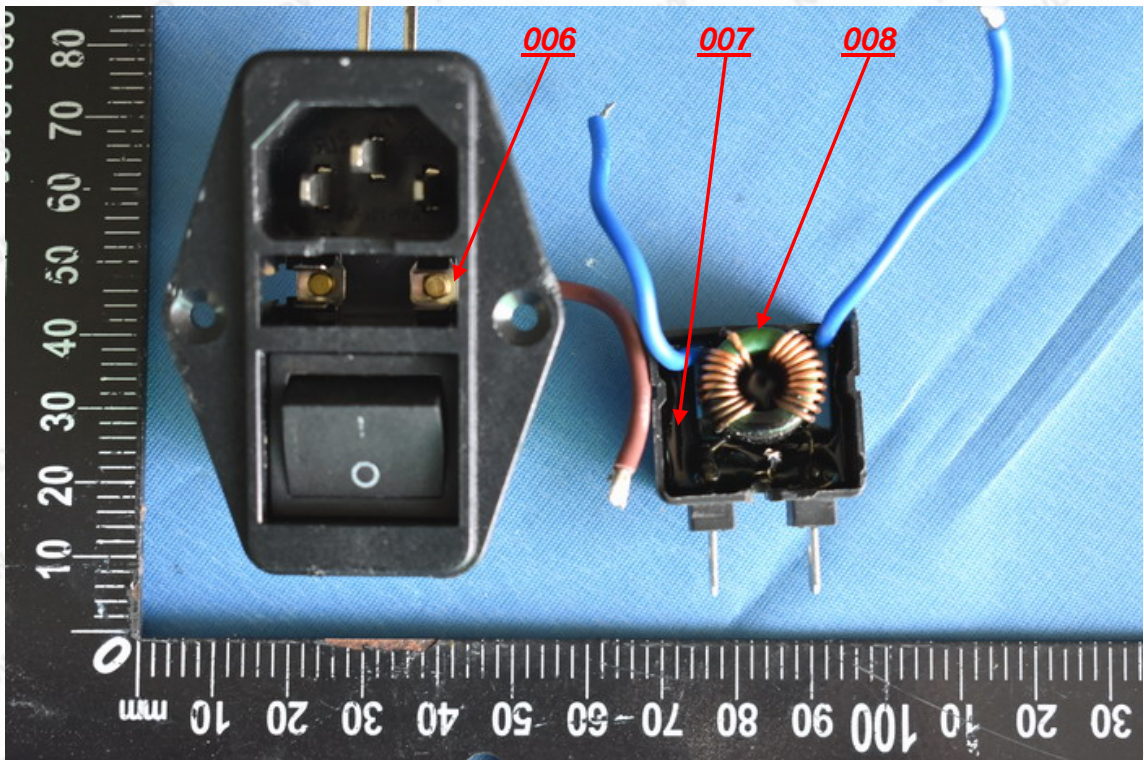
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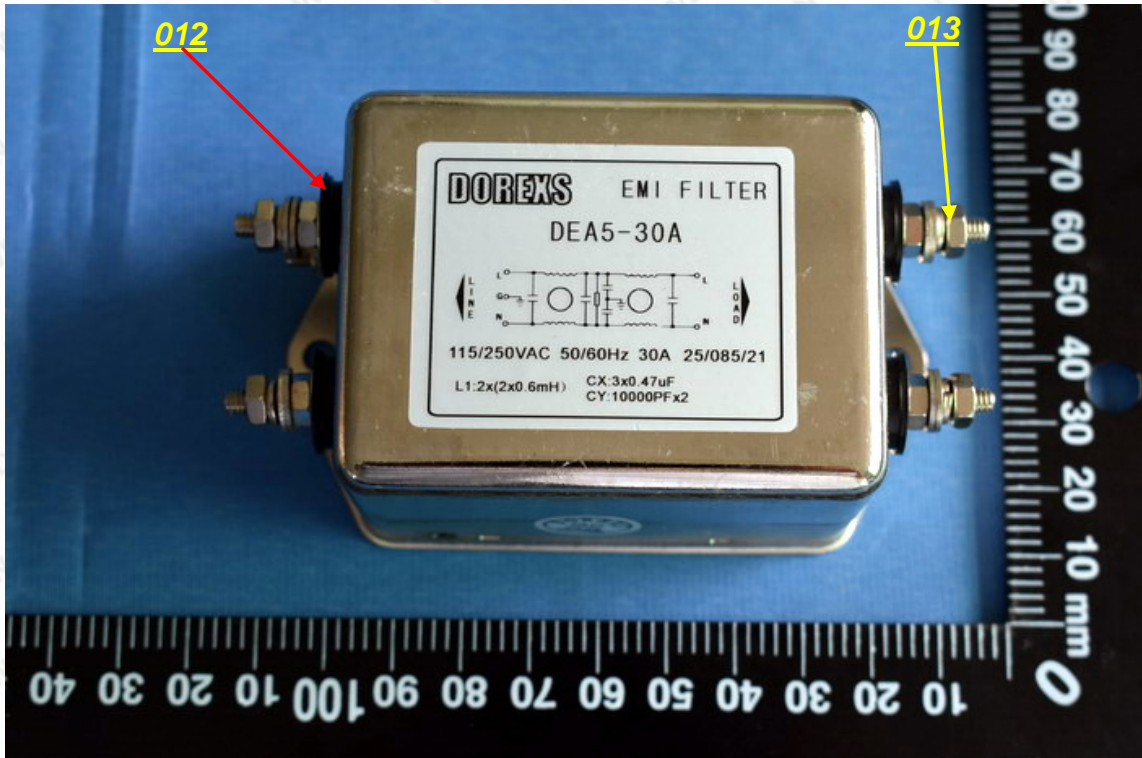
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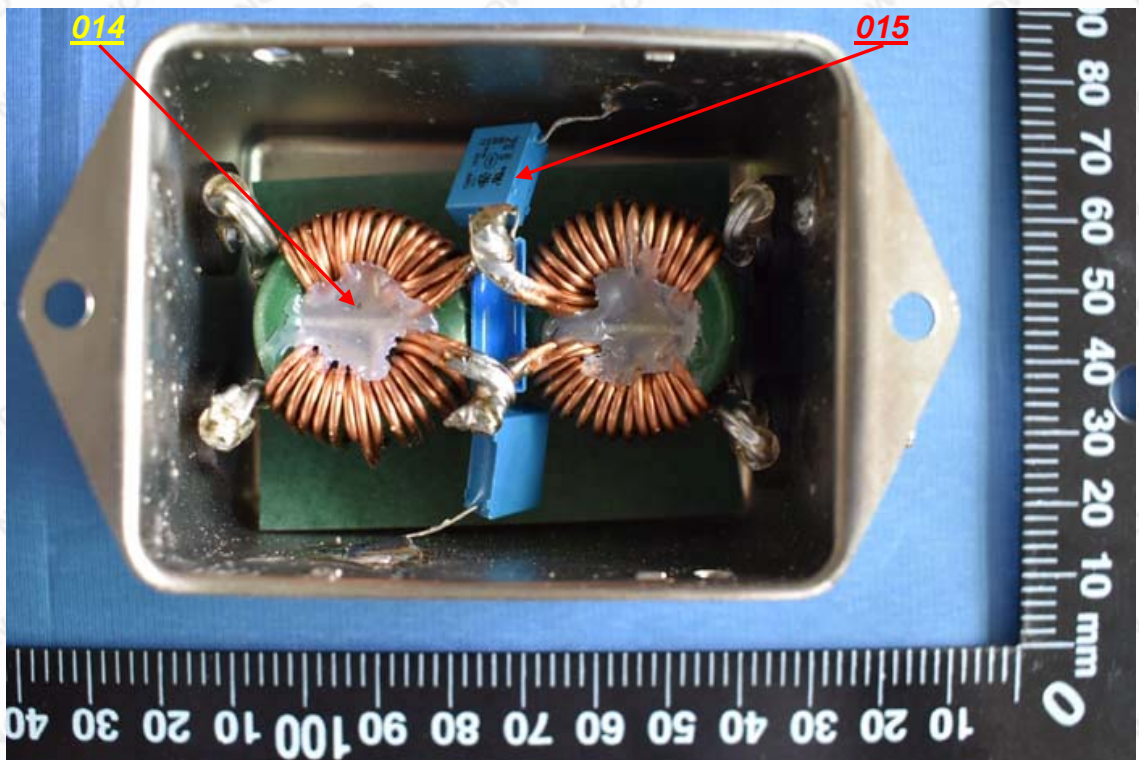
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### Photos



Model No.: DEA5-30A





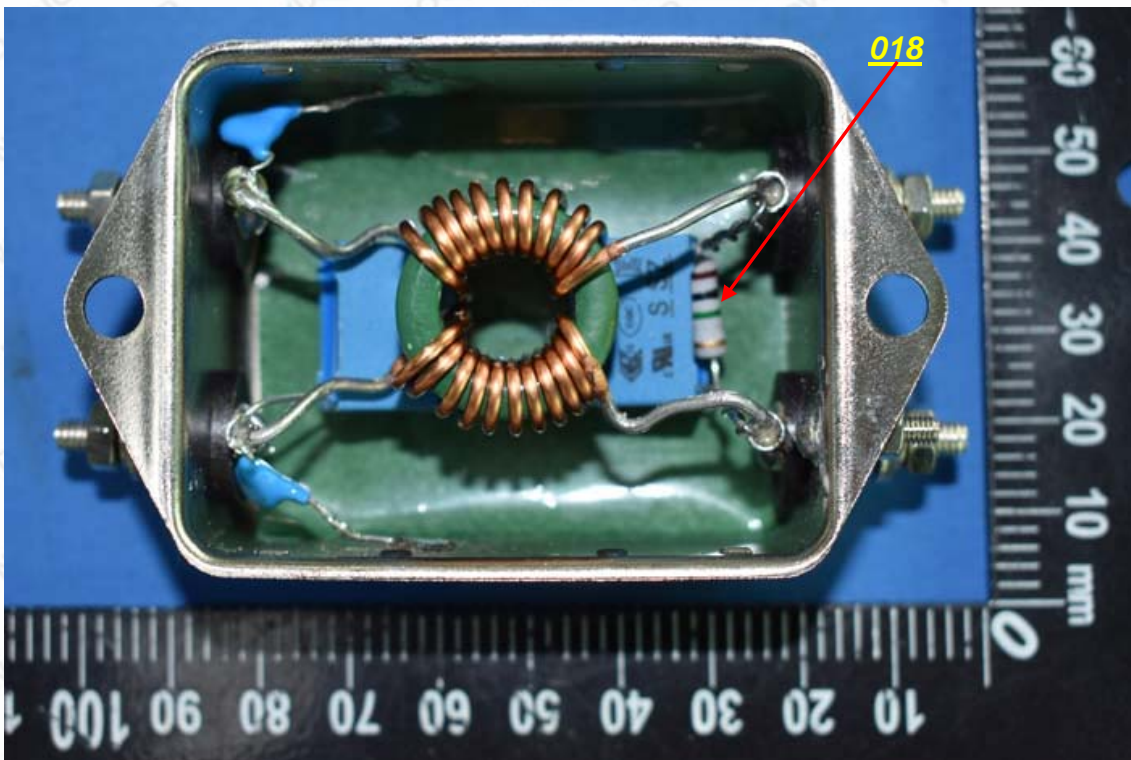
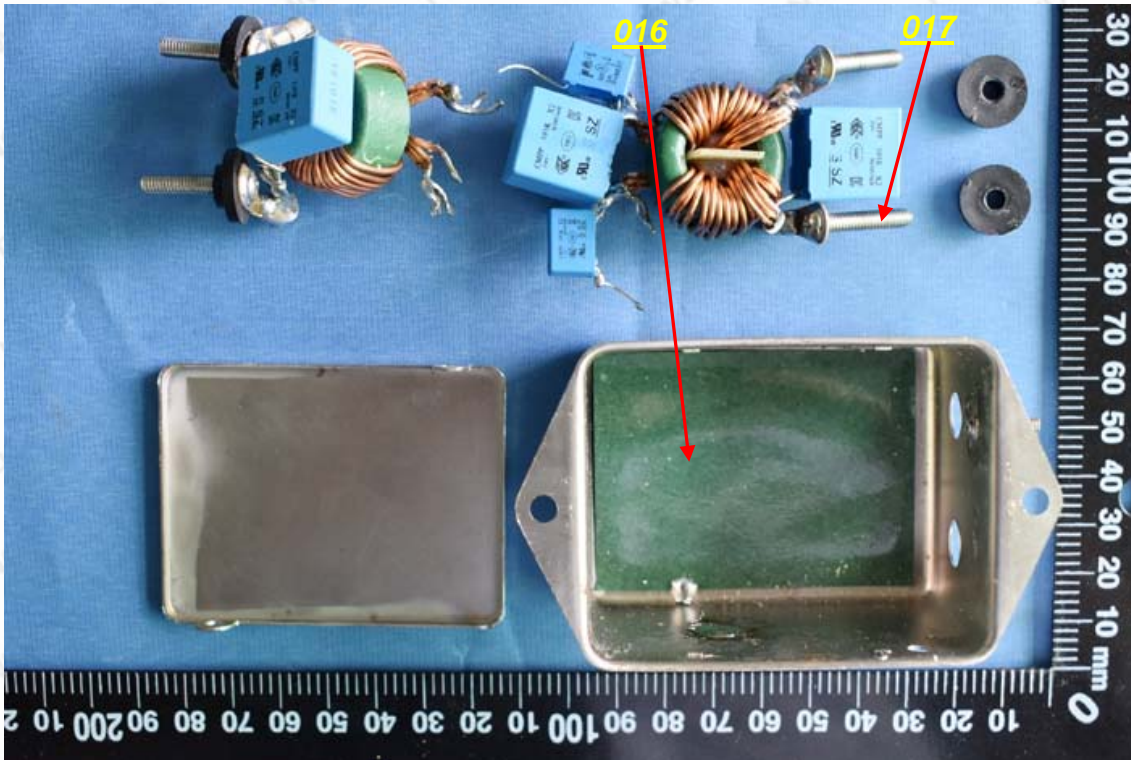
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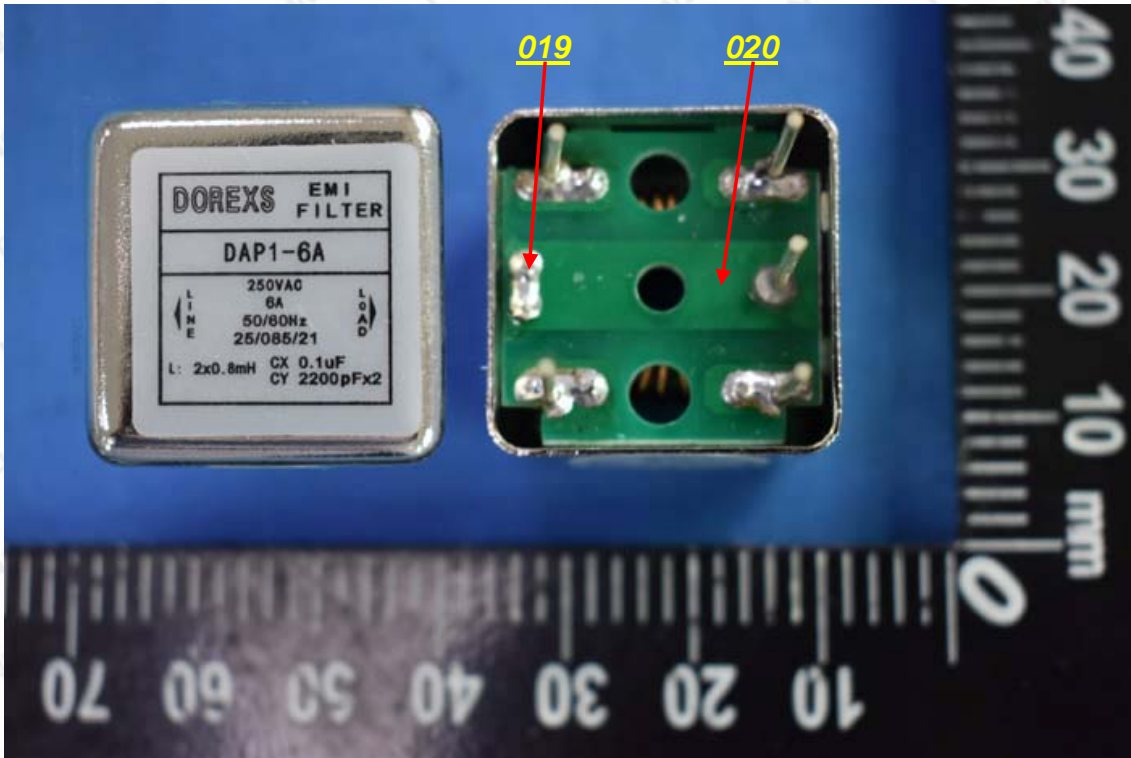
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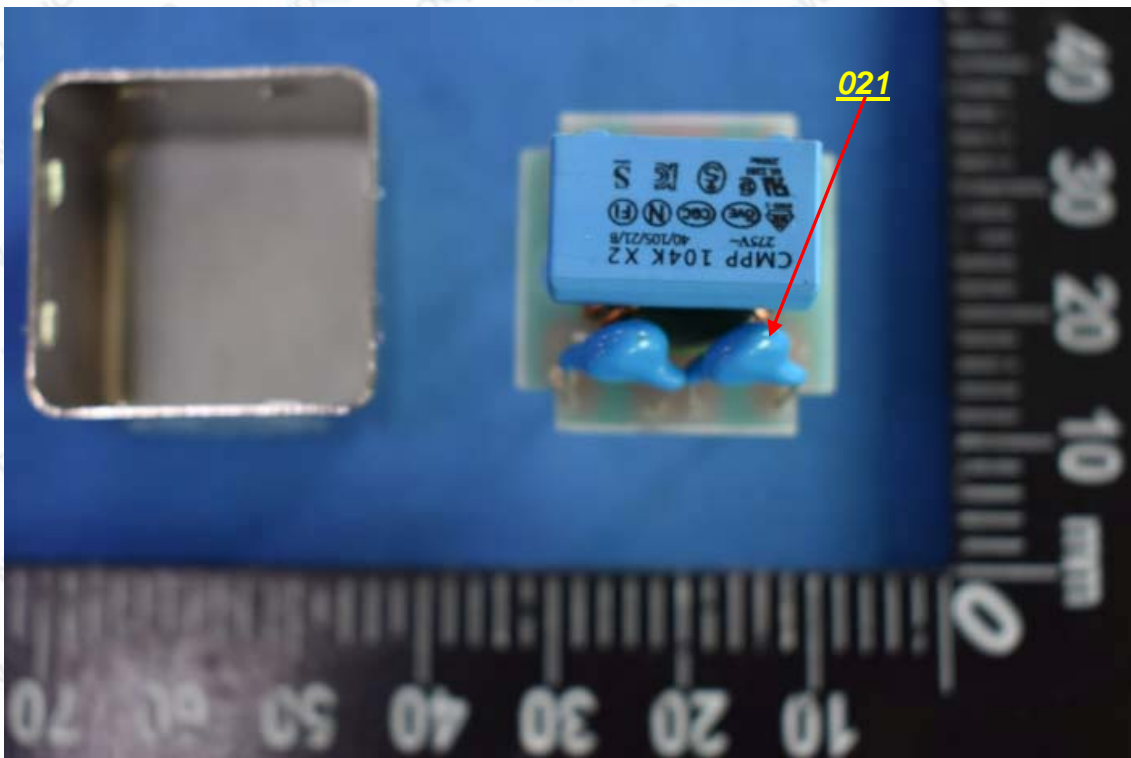
Model No.: DBA5-20A



### Photos



Model No.: DAP1-6A



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