

#### TAK MATERIALS (TAK 材質表) OF

Ni-Zn Ferrite Series (For High  $\mu$ MATERIALS) 鎮一鋅氧化磁鐵粉系列(高頻使用)

REFE CONTROL OF THE C						
CHARACTERISTICS(特性)	UNIT(單位)	DL2	DL3	DL4	DL5	DL6
μiac (初透磁率)		300	350	600	400	300
APPLICABLE 適用 FREQUENCY 頻率	MHz(百萬赫兹)	0.1–2	0.1–2	0.1–2	0.1–2	0.1–2
Bm(飽和磁束密度)	Gauss(高斯)	2600	3500	3500	4000	4300
Br(殘留磁束密度)	Gauss(高斯)	1500	1600	2000	2400	2400
Hc(保持力)	Oersted(奥斯特)	0.9	0.7	0.5	0.3	0.3
Tc(居禮温度)	°C(攝氏)	180	200	180	200	220
αμr(温度係數)	X10 <sup>-6</sup> /°C(攝氏)	10	25	30	25	25
Tan δ / μ iac (相對損失因子)	X10 <sup>-6</sup>	20(0.1) 100(2.0)	15(0.1) 80(2.0)	12(0.1) 80(2.0)	15(0.1) 80(2.0)	20(0.1) 90(2.0)
d(密度)	g/cm³(公克/立方公分)	4.8	4.8	4.9	4.9	4.8
ρ(表面阻抗)	Ω cm(歐姆)	10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>7</sup>



20

# SPECIFICATION

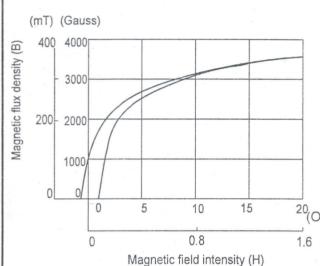
規格號碼 DRAWING NO.

顧 主 CUSTOMER 品名

關連規格號碼 CUSTOMER DRAWING NO.

# DL3 MATERIAL

							1				
材質 MAT'L	圖法 METHOD	單位 UNIT	尺度 SCALE	制定 DESIGN					承認 APPVD	確認 CHKD	立案 DWN
		M/M		1997	年 YEAR	07 月 MONTH	04	日 DAY	杨惠民	刘哲男	刘时晔
修訂 REVISION		1.		EAR	月 MONTH	⊟ DAY				0	
		2.		手 EAR	月 MONTH	日 DAY					
	,	3.		手 EAR	月 MONTH	日 DAY					



1000

0.5

0.2

 $\mu$  iac Vs. frequency response characteristics

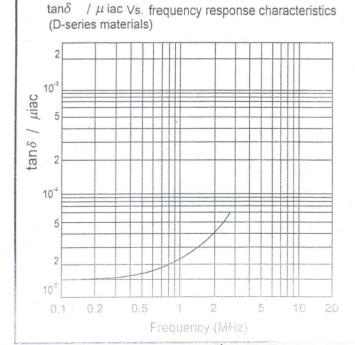
100 50 20(Oersted) ( 1.6 (kA/m)

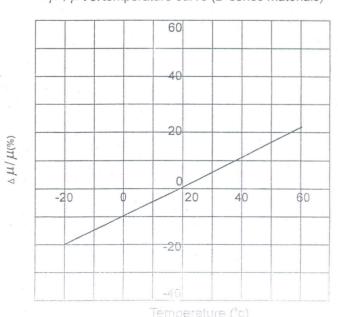
200

0.05

 $\Delta \mu / \mu Vs.$  temperature curve (D-series materials)

Frequency (MHz)







No. CANEC0800556115

Date: 05 Mar 2008

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TAK TECHNOLOGY CO.,LTD NO.3RD INDUSTRIAL AREA JUZHOU SHIJIE TOWN DONGGUAN CITY GUANGDONG PROVINCE CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: DL3 MATERIAL FERRITE CORE

SGS Job No.

10870088 - SZ

SGS Internal Reference No. :

18.15

Date of Sample Received

29 Feb 2008

**Testing Period** 

29 Feb 2008 - 04 Mar 2008

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)

Signed for and on behalf of SGS-CSTC Ltd.

Huang Fang, Sunny

Sr. Engineer

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Test Results:

ID for specimen 1

: CAN08-005561.015

Description for specimen 1

: Dk-gray core

#### Heavy metal(s)

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Cadmium (Cd)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2
Lead (Pb)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	485	2
Mercury (Hg)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2
Hexavalent Chromium (CrVI) by	mg/kg	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	N.D.	2
alkaline extraction				

#### Note:

1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit



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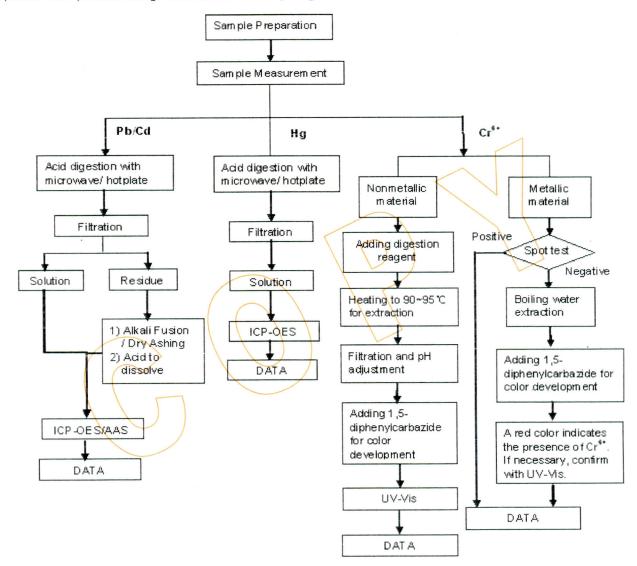
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#### **ATTACHMENTS**

#### **Testing Flow Chart**

- Name of the person who made measurement: David Shen
- 2) Name of the person in charge of measurement: Emily Feng



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Sample photo:



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