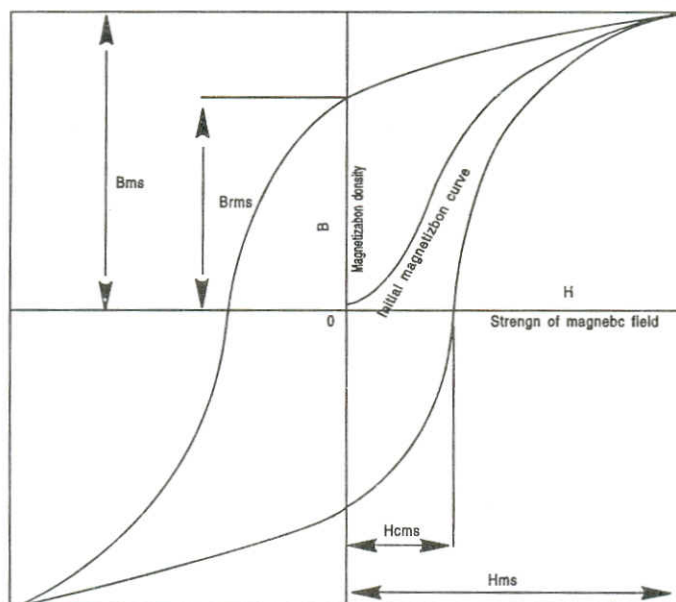


PROPERTIES OF TAK MATERIALS

Ni-Zn Ferrite Series (For High Frequency)

CHARACTERISTICS	UNIT	V4F1	V2F1	M5E1	M11A	M9D1	M9A	M8B1	M8C1	M61	MG2
μ_{iac}	—	8	30	15	20	50	50	60	60	100	300
APPLICABLE FREQUENCY	MHz	10-250	3-70	10-120	3-80	1-50	0.5-30	0.5-15	0.5-15	0.5-10	0.1-2
B _m	Gauss	2100	3100	3000	2700	3700	3400	3200	3000	3500	2400
B _r	Gauss	1300	1700	1600	1800	2300	1900	1800	750	2100	1300
H _c	Oersted	38	8	15	10	4	5.5	6	4	2.5	0.8
T _c	°C	300	300	300	300	300	300	300	300	250	150
$\alpha \mu r$	$-6 \times 10^6 / ^\circ C$	10	70	110	80	80	60	15	10	38	9
Tan δ / μ_{iac}	-6×10	600(10) 4000(250)	80(3.0) 400(70)	500(10) 800(120)	100(3.0) 500(80)	200(21) 600(500)	100(0.5) 300(30)	130(0.5) 350(15)	100(0.5) 1500(15)	100(0.5) 1509(10)	20(0.1) 100(2.0)
ρ	Ωcm	10^5	10^6	10^6	10^6	10^6	10^6	10^6	10^6	10^6	10^6



SPECIFICATION

規格號碼
DRAWING NO.

顧主
CUSTOMER

品名
ITEM

關連規格號碼
CUSTOMER DRAWING NO.

M61 MATERIAL

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

年
YEAR

月
MONTH

日
DAY

修訂
REVISION

1.

年
YEAR

月
MONTH

日
DAY

2.

年
YEAR

月
MONTH

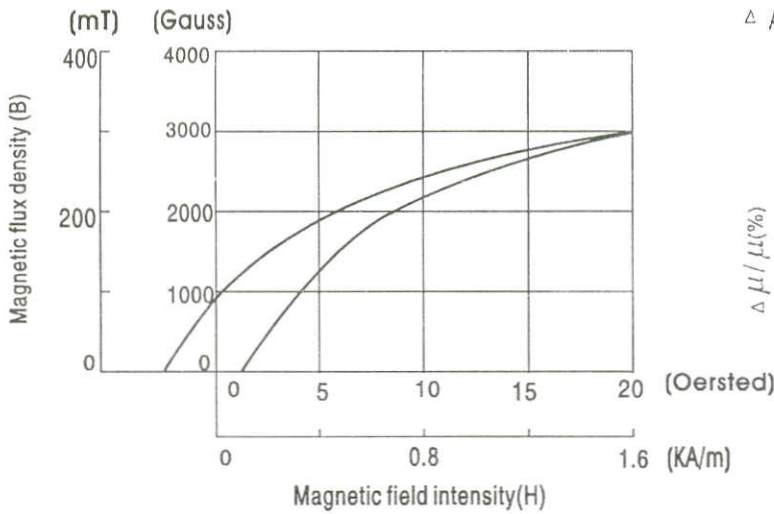
日
DAY

3.

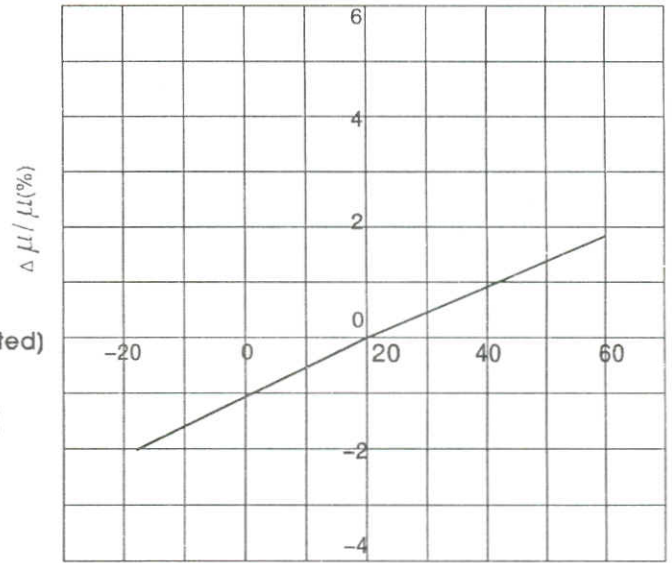
年
YEAR

月
MONTH

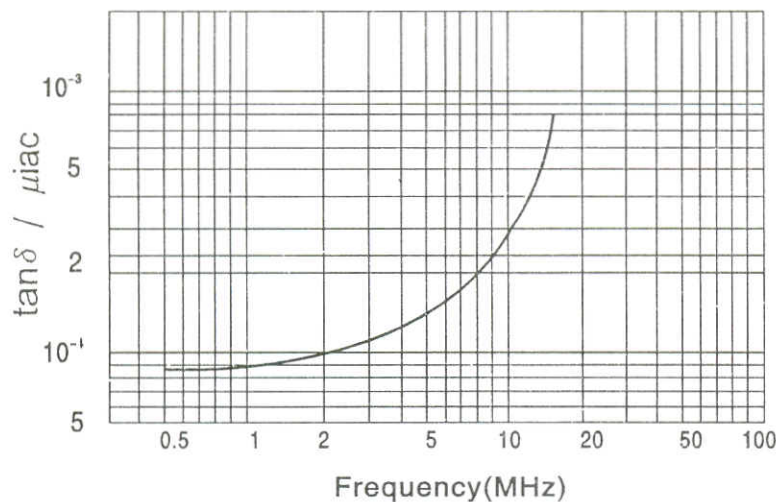
日
DAY



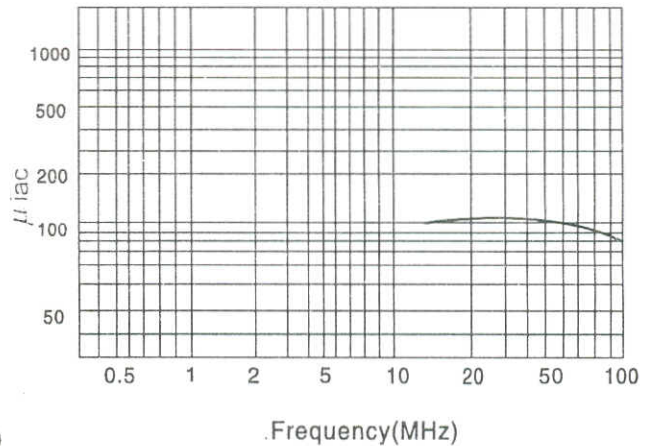
$\Delta \mu / \mu$ Vs. temperature curve (M-series materials)



$\tan \delta / \mu_{iac}$ Vs. frequency response characteristics (M-series materials)



μ_{iac} Vs. frequency response characteristics





Test Report

No. CANEC0800556111

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 :
M61 MATERIAL FERRITE CORE

SGS Job No. : 10870088 - SZ
SGS Internal Reference No. : 18.11
Date of Sample Received : 29 Feb 2008
Testing Period : 29 Feb 2008 - 04 Mar 2008

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

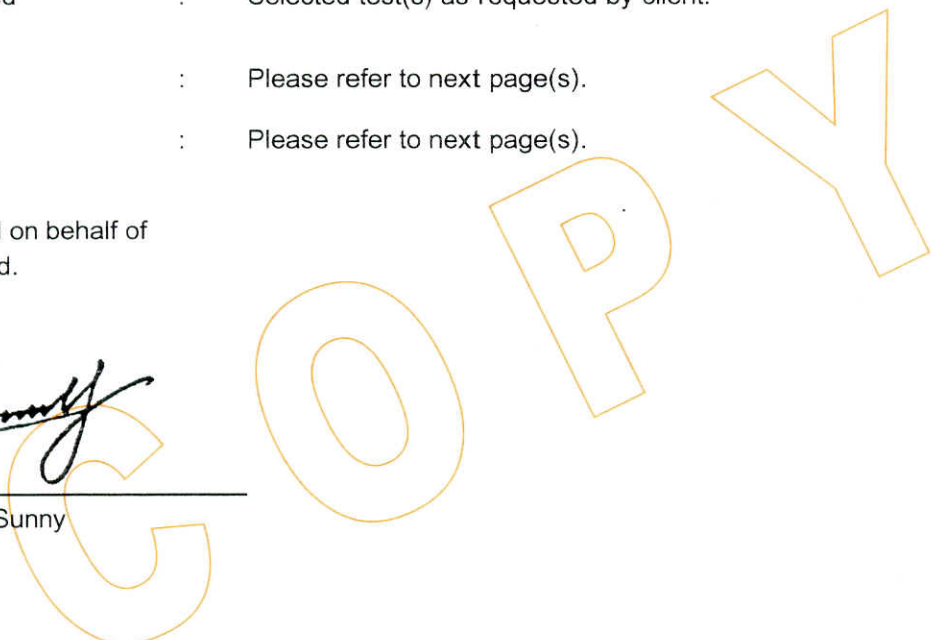
Test Method : Please refer to next page(s).

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

Signed for and on behalf of
SGS-CSTC Ltd.

[Handwritten signature]

Huang Fang, Sunny
Sr. Engineer



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Test Report

No. CANEC0800556111

Date: 05 Mar 2008

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Test Results:

ID for specimen 1 : CAN08-005561.011
 Description for specimen 1 : Dk-gray core

Heavy metal(s)

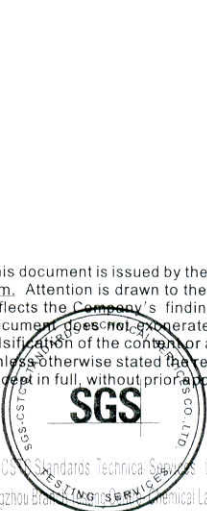
Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Cadmium (Cd)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2
Lead (Pb)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	818	2
Mercury (Hg)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	N.D.	2

Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

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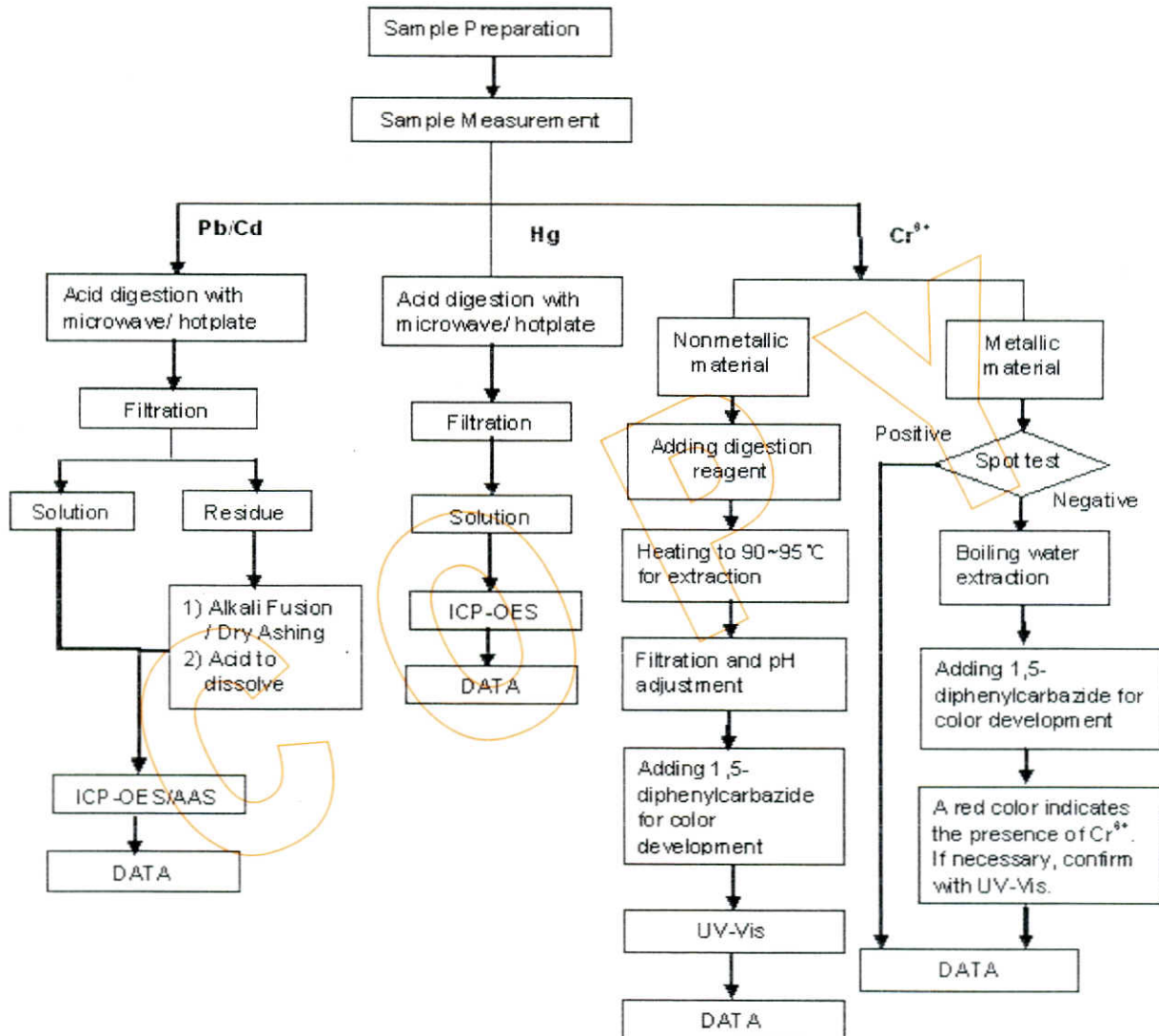


GZCM 1594 100

ATTACHMENTS

Testing Flow Chart

- 1) 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:



SGS authenticate the photo on original report only

*** End of Report ***

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