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To _____

No. A768-040403N-01

Date 3rd Apr. '04

Type No.
CTDA1

Data Sheet

| CDMA800/GSM850 Tx SAW Filter | |
|-------------------------------------|------------------------------------|
| Application | : Tx Filter for CDMA800/GSM850 |
| Center Frequency | : 836.5MHz |
| Size | : 2.0x1.4mm, 5pin-layout |
| Impedance | : 50-50ohms unbalance-unbalance |
| Part No. | : EFCH836MTCD1 |

Issued *S. Tsuzuki*
Check *K. Nishimura*

CIRCUIT COMPONENTS BUSINESS UNIT
MATSUSHITA ELECTRONIC COMPONENTS CO.,LTD
KADOMA, OSAKA, JAPAN

CDMA800/GSM850 Tx SAW Filter

----- Unbalanced input and output -----

Part No. :

Design No. : T836PD1

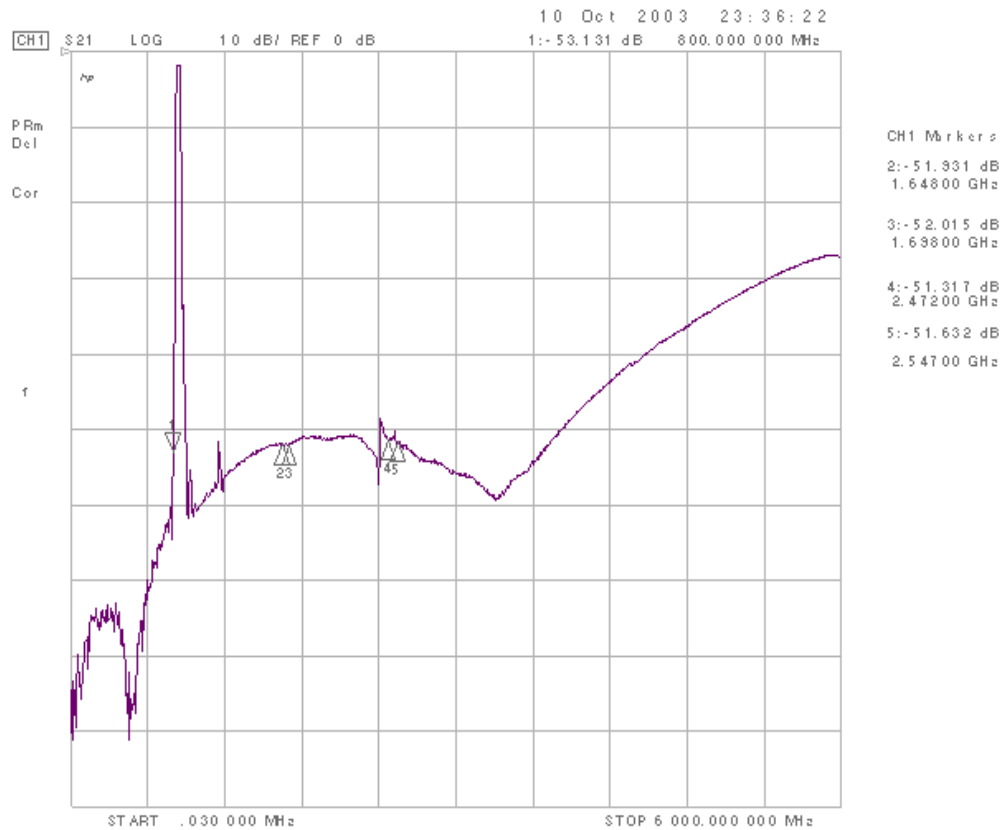
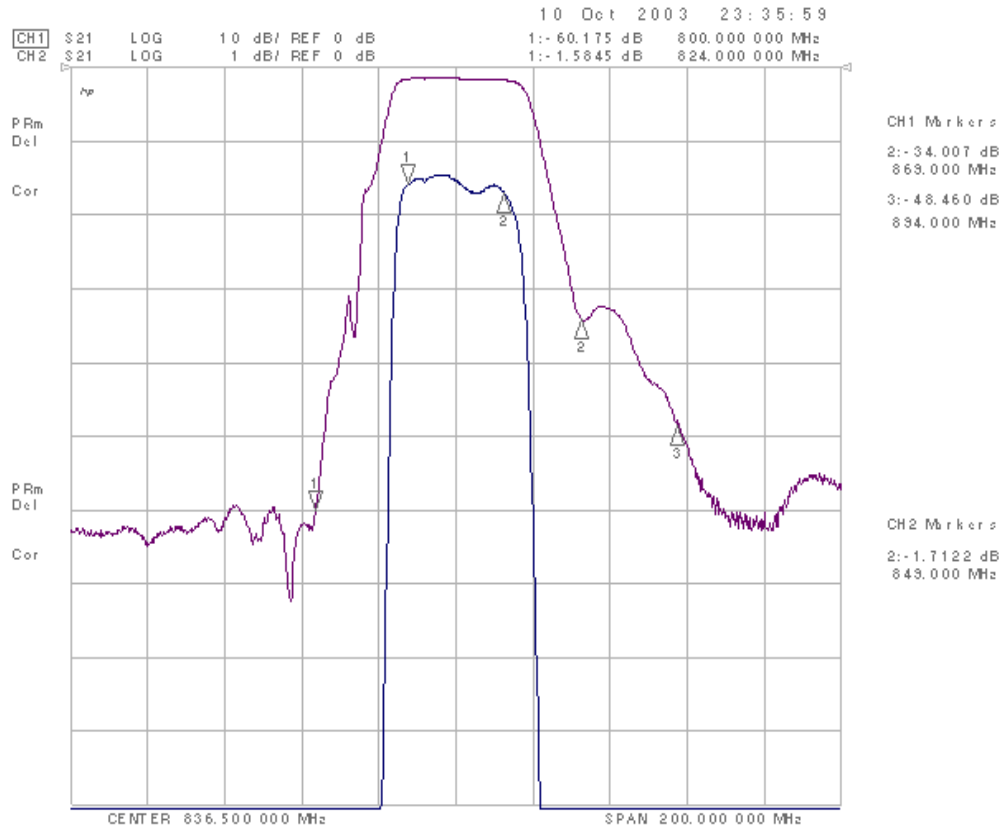
| Parameter | Frequency | Your request | | | Our preliminary spec. | | | Unit |
|-----------------------|----------------|------------------|------|------|-----------------------|------|------|--------|
| | | Min. | Typ. | Max. | Min. | Typ. | Max. | |
| Passband | | 824 ... 849 | | | 824 ... 849 | | | MHz |
| Insertion loss | 824 ... 849MHz | | | | | 1.7 | 2.3 | dB |
| Ripple in passband | 824 ... 849MHz | | | | | 0.3 | 1.2 | dB |
| Attenuation | Att1 | DC ... 800MHz | | | | 40 | 58 | dB |
| | Att2 | 869 ... 894MHz | | | | 27 | 32 | dB |
| | Att3 | 1648 ... 1698MHz | | | | 35 | 52 | dB |
| | Att4 | 2472 ... 2547MHz | | | | 30 | 50 | dB |
| VSWR | Input | 824 ... 849MHz | | | | 1.6 | 2.0 | |
| | Output | 824 ... 849MHz | | | | 1.6 | 2.0 | |
| Input impedance | | | | | 50 | | | Ohm |
| Output impedance | | | | | 50 | | | Ohm |
| Maximum drive level | | | | | | | 10 | dBm |
| Operating temperature | | | | | -30 | | +85 | deg. C |
| Storage temperature | | | | | -40 | | +85 | deg. C |

CDMA800/GSM850 Tx SAW Filter

----- Unbalanced input and output -----

Part No. :

Design No. : T836PD1

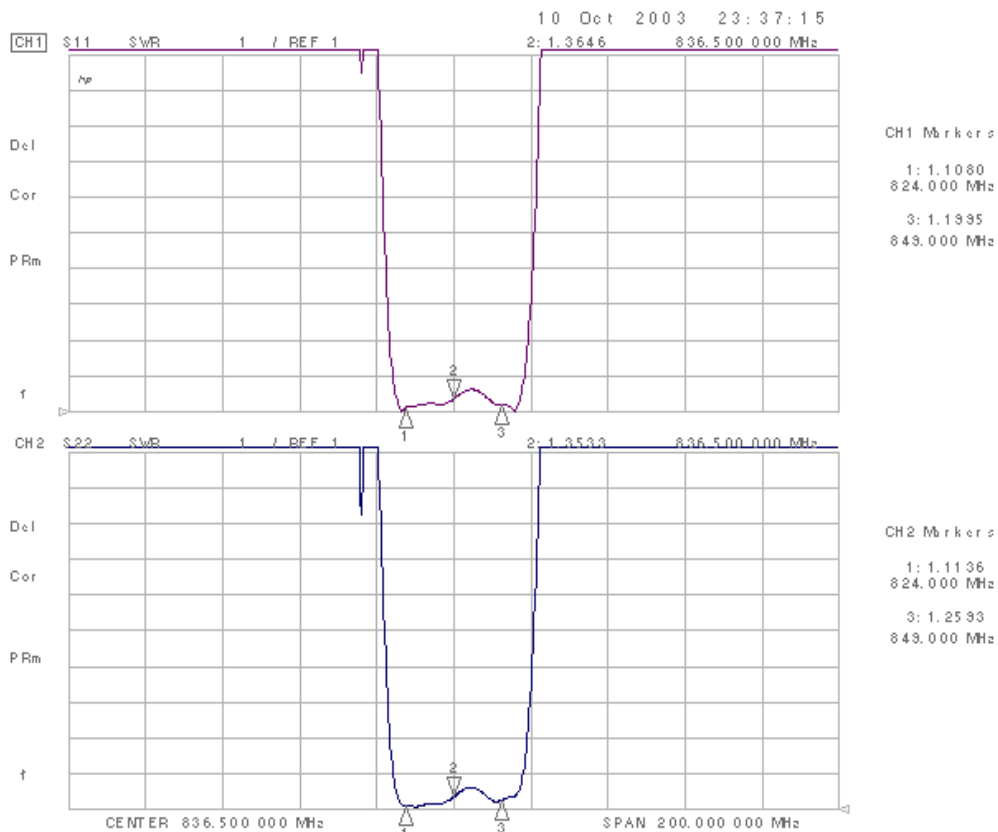
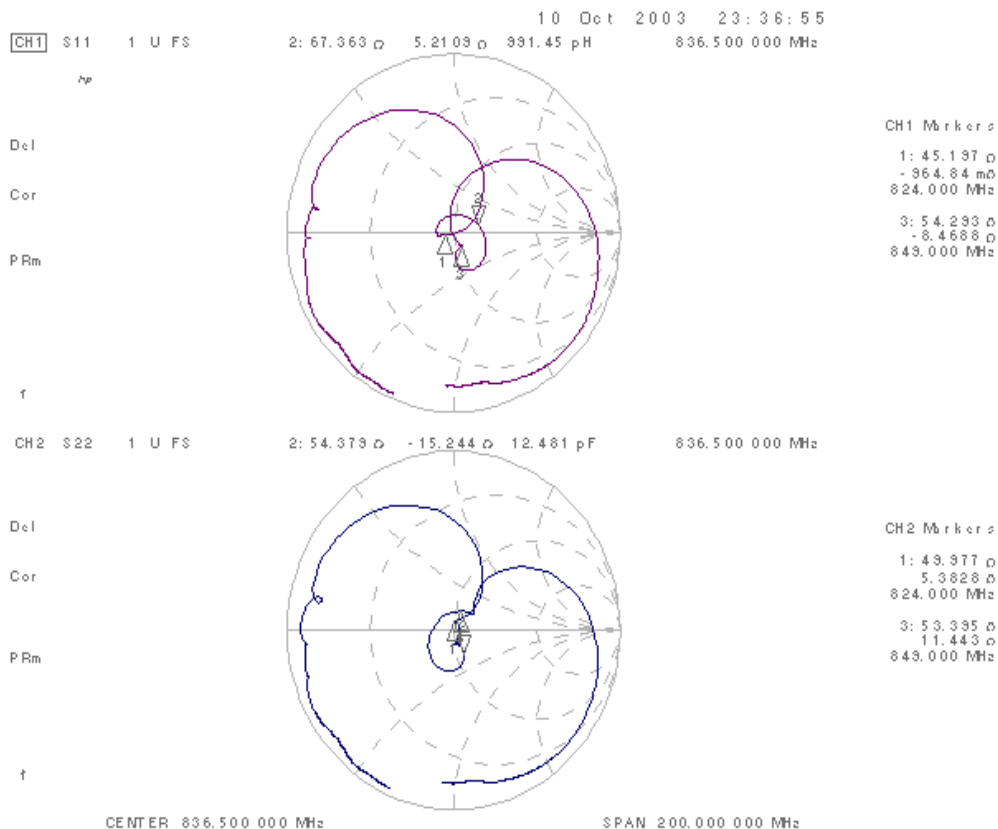


CDMA800/GSM850 Tx SAW Filter

----- Unbalanced input and output -----

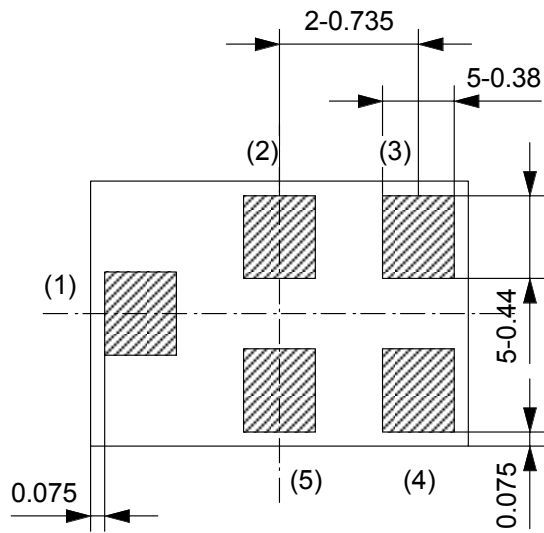
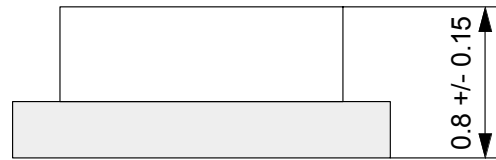
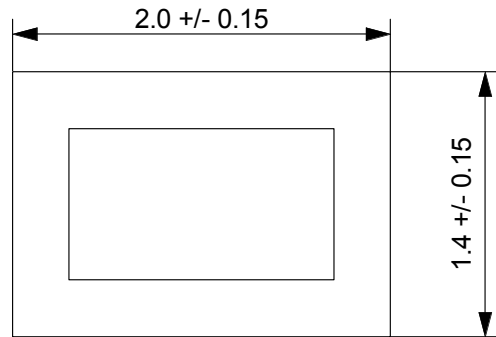
Part No. :

Design No. : T836PD1



THIRD ANGLE PROJECTION

Tolerance : +/-0.05



- (1) Input
- (2) GND
- (3) GND
- (4) Output
- (5) GND

Note :
 The design manufacturing process,
 and Specification of this device
 are subject to change without
 notice.

| UNLESS OTHERWISE SPECIFIED | | |
|----------------------------|------|-----------|
| BASIC DIMENSIONS | | TOLERANCE |
| UP TO | INCL | |
| TO | INCL | |
| TO | INCL | |
| TO | INCL | |
| ABOVE | | |

| | | |
|--|--|--|
| | | |
|--|--|--|

| ISSUE | REVISIONS | DATE |
|-------------|-----------|-------|
| MATERIAL | FINISH | SCALE |
| DESIGN | | |
| DRAW | | |
| CHECK | | |
| APPROVAL | | |
| DRAWING NO. | | |

DO NOT SCALE DRAWING

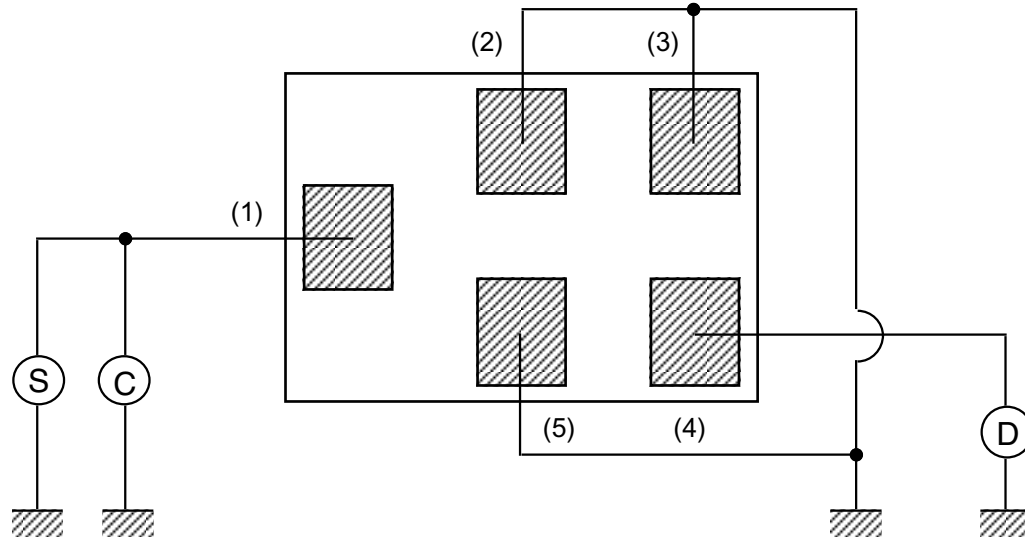
REVISIONS INDICATED BY Δ

ALL DIMENSIONS ARE IN MILLIMETERS

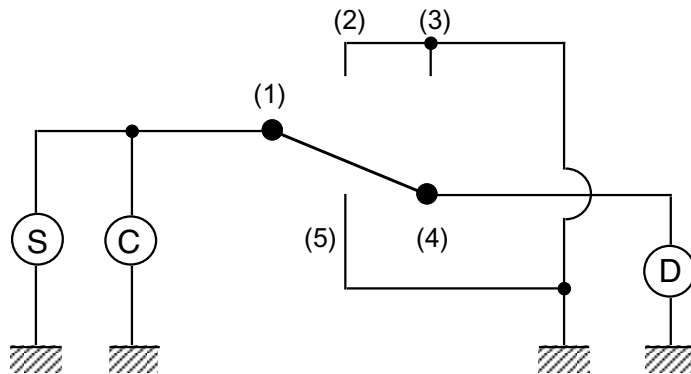
| | |
|------------|----------|
| NAME | TYPE NO. |
| SAW Filter | |

**CERAMIC BUSINESS UNIT, LCR DEVICE COMPANY
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 KADOMA, OSAKA, JAPAN**

Measurement Circuit



0 Level



S : Standard Signal Generator
(Output Impedance 50ohm)
C : Frequency Counter
D : Detector
(Input Impedance 50ohm)

| | | |
|--|--|--|
| | | |
|--|--|--|

| ISSUE | REVISIONS | DATE |
|-------------|-----------|-------|
| MATERIAL | FINISH | SCALE |
| DESIGN | | |
| DRAW | | |
| CHECK | | |
| APPROVAL | | |
| DRAWING NO. | | |

| | |
|------------|----------|
| NAME | TYPE NO. |
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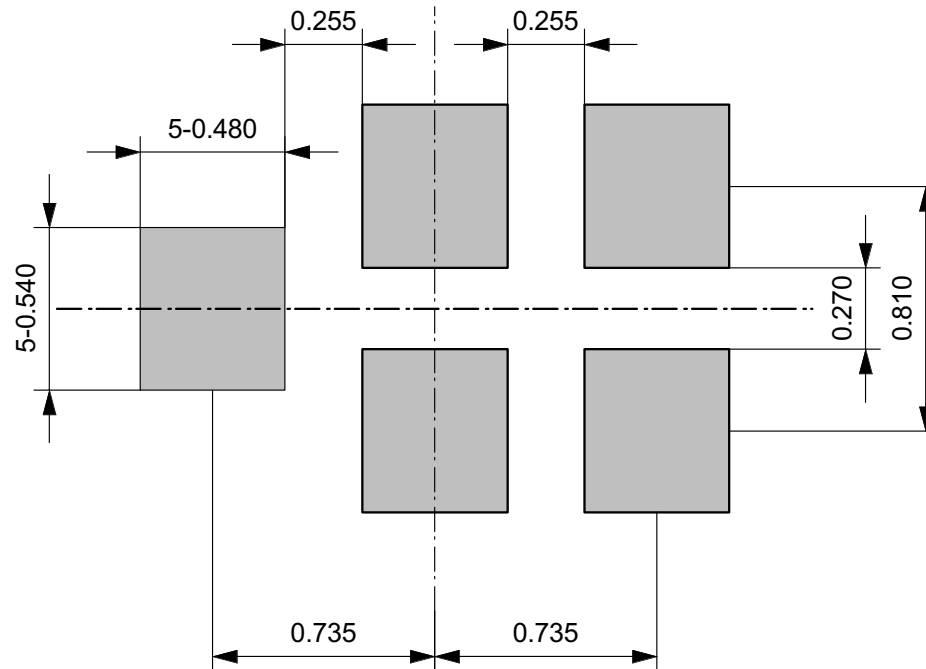
Fig. 2

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

| BASIC DIMENSIONS | | TOLERANCE |
|------------------|------|-----------|
| UP TO | INCL | |
| TO | INCL | |
| TO | INCL | |
| TO | INCL | |
| ABOVE | | |

Recommended land pattern



Note :
 The design manufacturing process, and Specification of this device are subject to change without notice.

| | | |
|--|--|--|
| | | |
|--|--|--|

| ISSUE | REVISIONS | DATE |
|-------------|-----------|-------|
| MATERIAL | FINISH | SCALE |
| DESIGN | | |
| DRAW | | |
| CHECK | | |
| APPROVAL | | |
| DRAWING NO. | | |

| | | |
|------|------------|----------|
| NAME | SAW Filter | TYPE NO. |
|------|------------|----------|

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