



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet


Product Name: SAW Filter 751MHz 10MHz BW SMD 1.1x0.9 mm

TST Parts No.: TA1694A

Customer Part No.: _____

| |
|-----------------------------|
| Customer signature required |
| Company: _____ |
| Division: _____ |
| Approved by : _____ |
| Date: _____ |

Checked by: _____ Andy Yu 

Approved by: _____ Bob Chau 

Date: _____ 2013, 11, 25

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

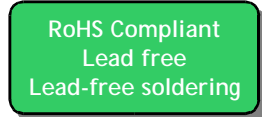
SAW Filter 751MHz 10MHz BW SMD 1.1x0.9 mm

MODEL NO.: TA1694A

REV. No.: 1.0

A. MAXIMUM RATING:

1. Maximum Input Power: 29 dBm
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C



Electrostatic Sensitive Device (ESD)

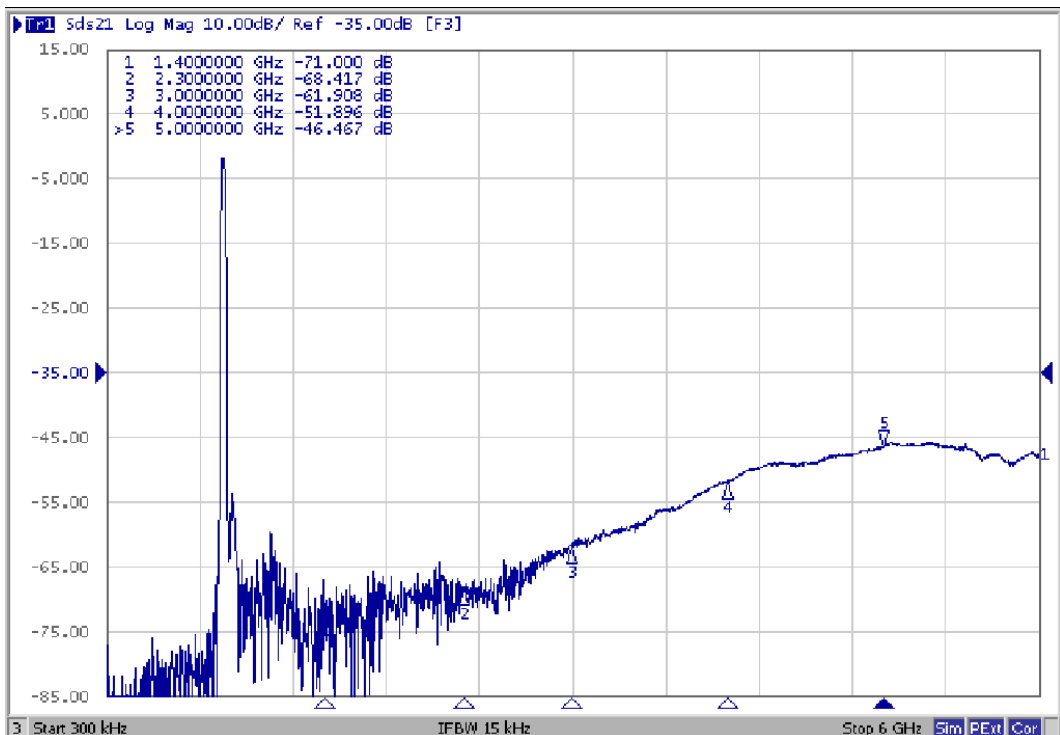
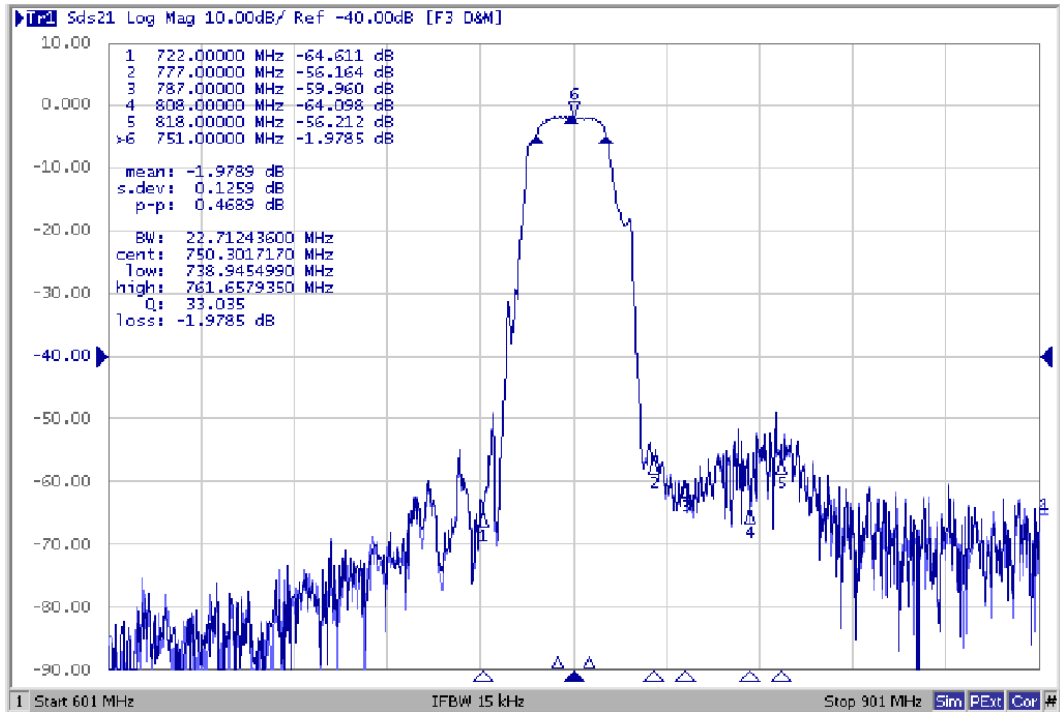
B. ELECTRICAL CHARACTERISTICS:

| Parameters Description | Unit | Minimum | Typical | Maximum |
|--|-------------------|---------|-------------|---------|
| Center Frequency (Fo) | MHz | - | 751 | - |
| Insertion Loss within 746.0 ~ 756.0 MHz | dB | - | 2.0 | 3.0 |
| Amplitude Ripple within 746.0 ~ 756.0 MHz | dB _{p-p} | - | 0.5 | 2.2 |
| VSWR within 746.0 ~ 756.0 MHz | - | - | 1.8 | 2.2 |
| Amplitude balance within 746.0 ~ 756.0 MHz | dB | -1.0 | -0.1 ~ +0.2 | +1.0 |
| Phase balance within 746.0 ~ 756.0 MHz | deg | -10 | -1.0 ~ +1.0 | +10 |
| Attenuation: | | | | |
| DC ~ 716.0 MHz | dB | 45 | 66 | - |
| 716.0 ~ 722.0 MHz | dB | 40 | 55 | - |
| 777.0 ~ 787.0 MHz | dB | 48 | 55 | - |
| 808.0 ~ 818.0 MHz | dB | 43 | 48 | - |
| 1400.0 ~ 2300.0 MHz | dB | 50 | 65 | - |
| 2300.0 ~ 3000.0 MHz | dB | 44 | 58 | - |
| 3000.0 ~ 4000.0 MHz | dB | 35 | 52 | - |
| 4000.0 ~ 5000.0 MHz | dB | 30 | 47 | - |
| 5000.0 ~ 6000.0 MHz | dB | 25 | 47 | - |

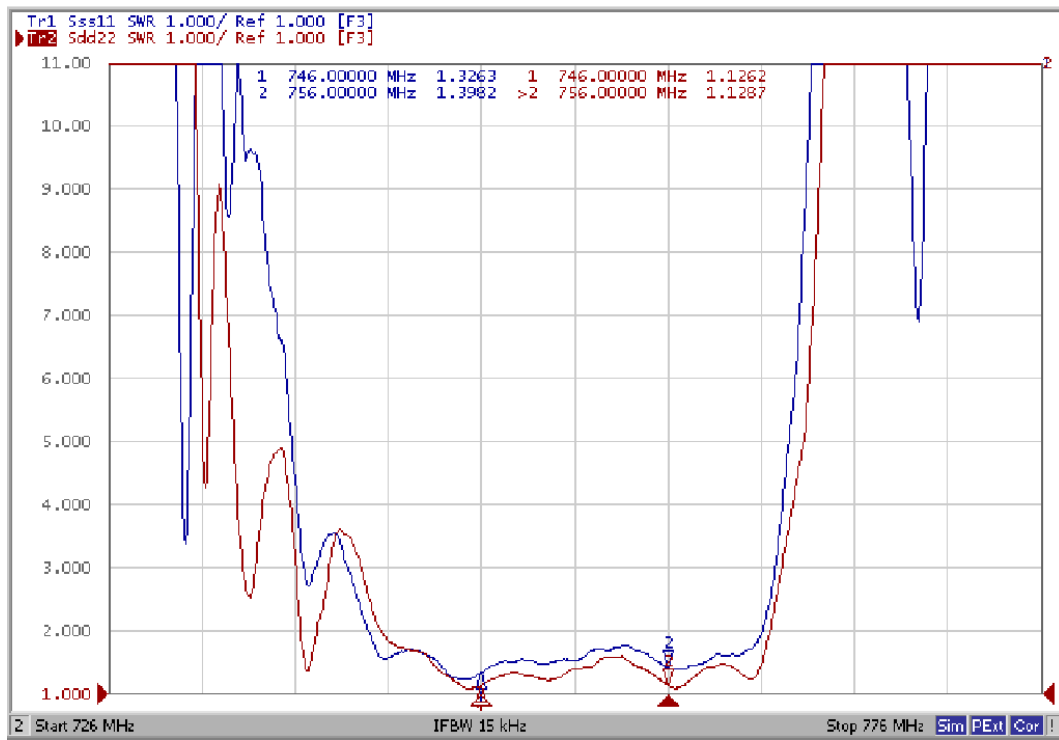
Notes : (1) No Matching Network .

C. Frequency Characteristics :

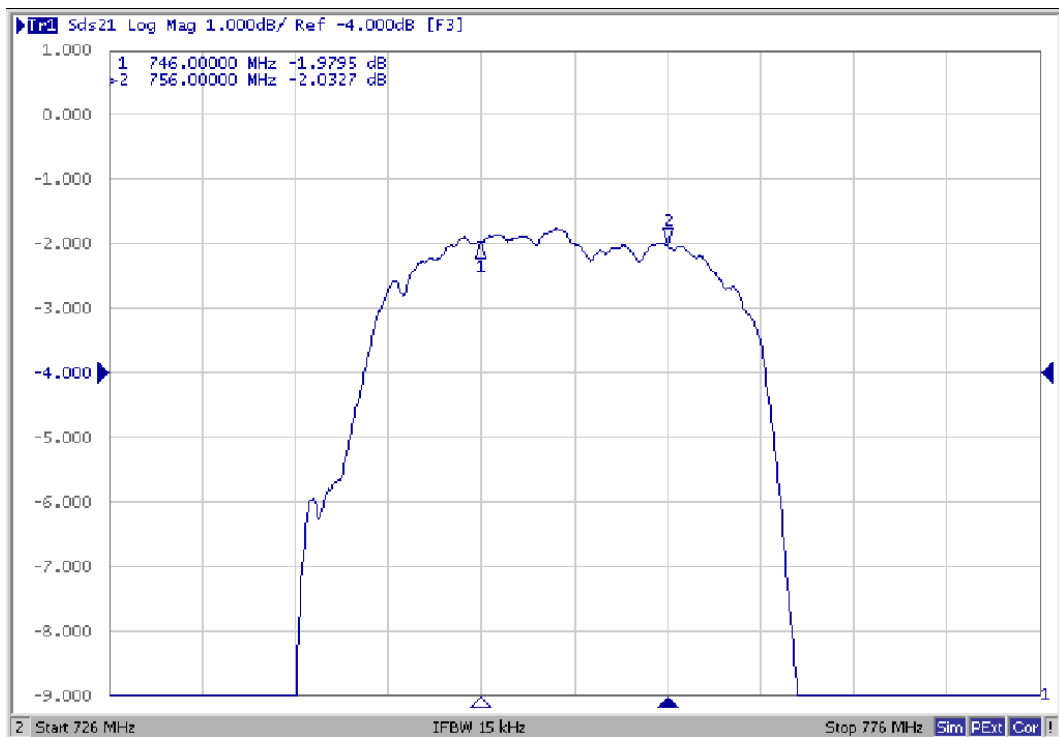
Frequency Response



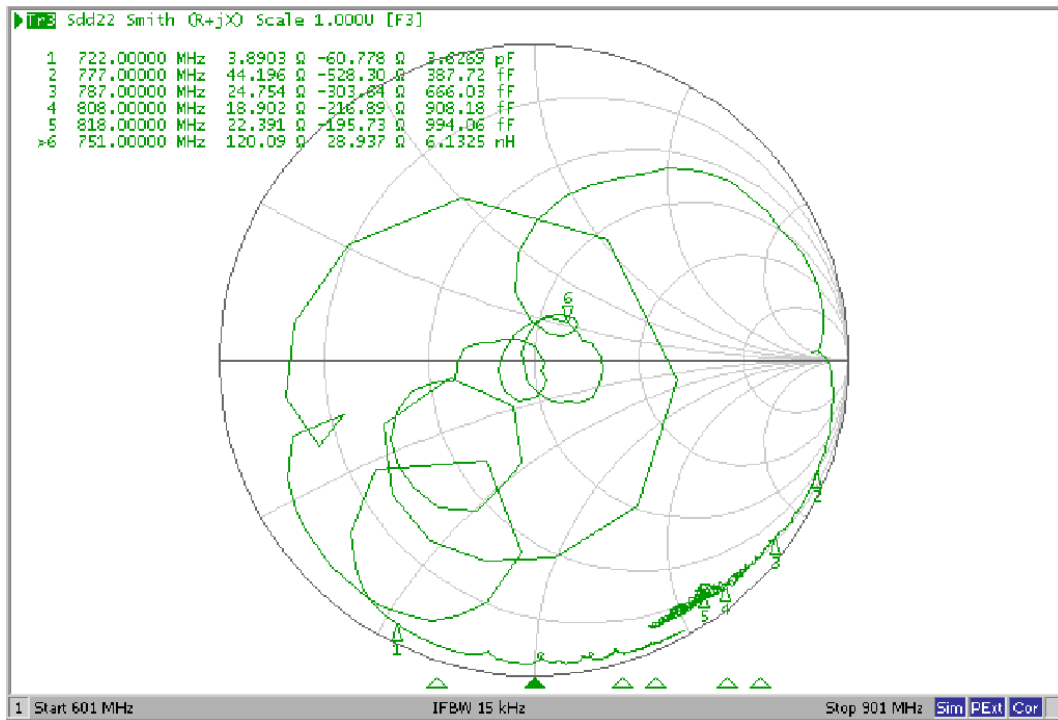
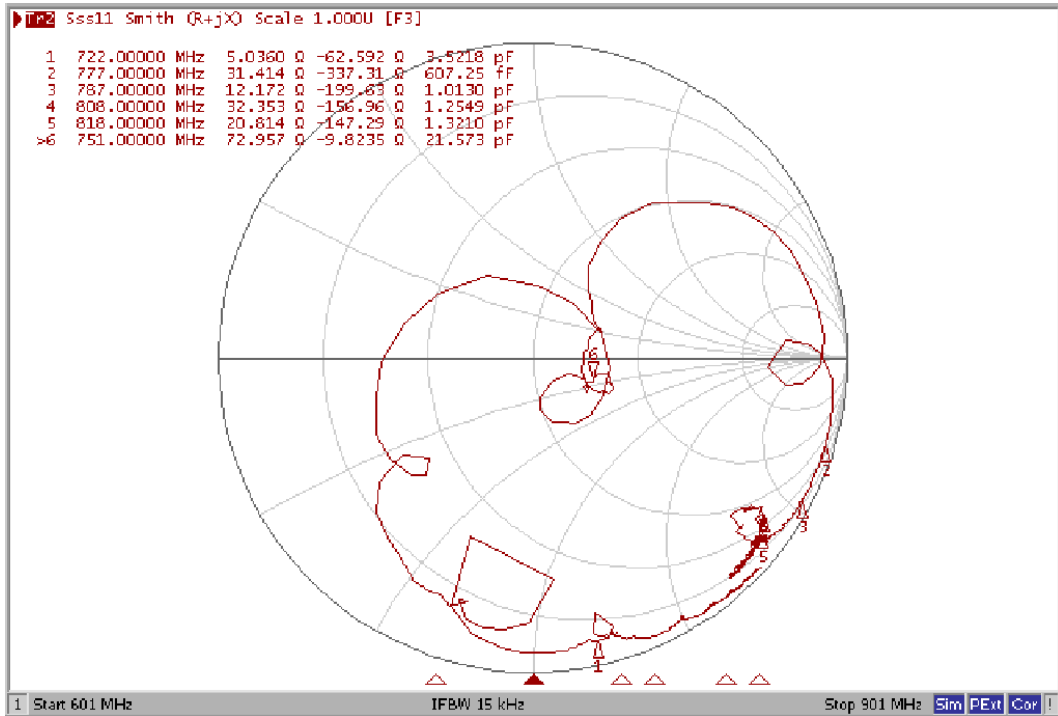
VSWR



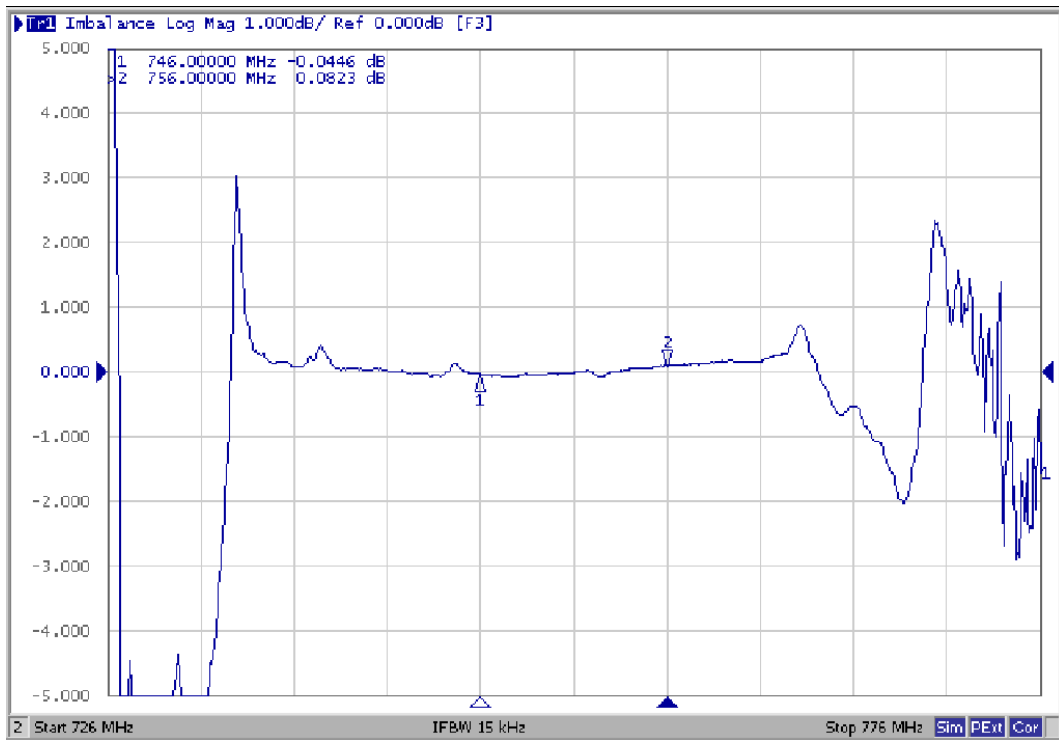
Ripple



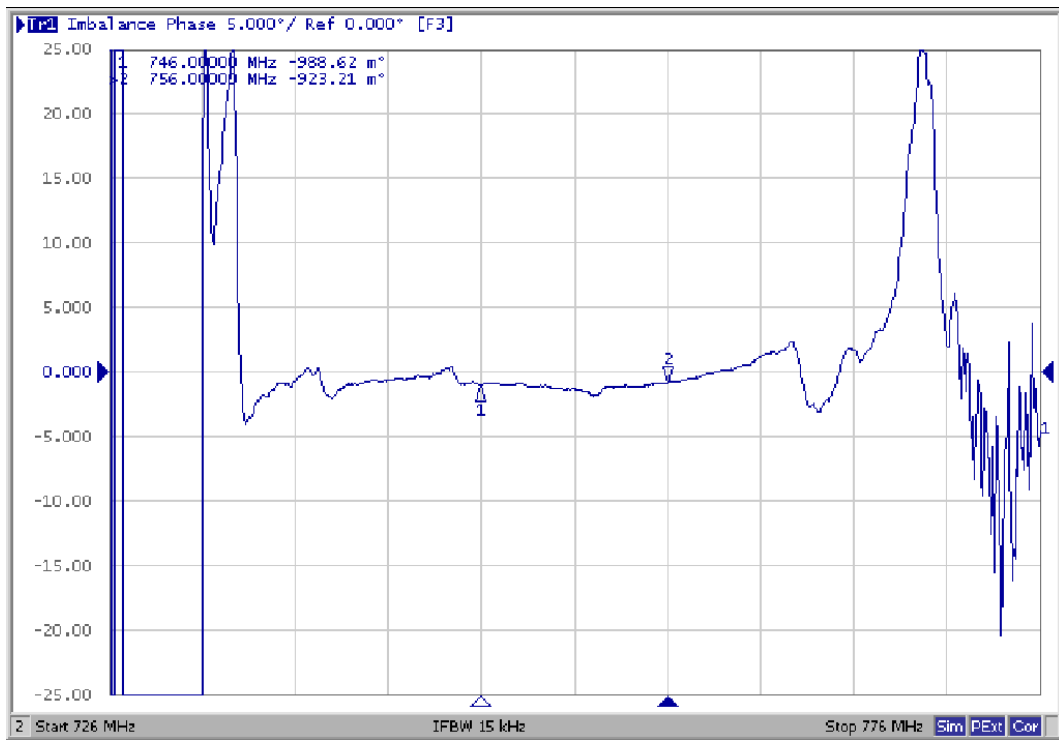
Smith Chart



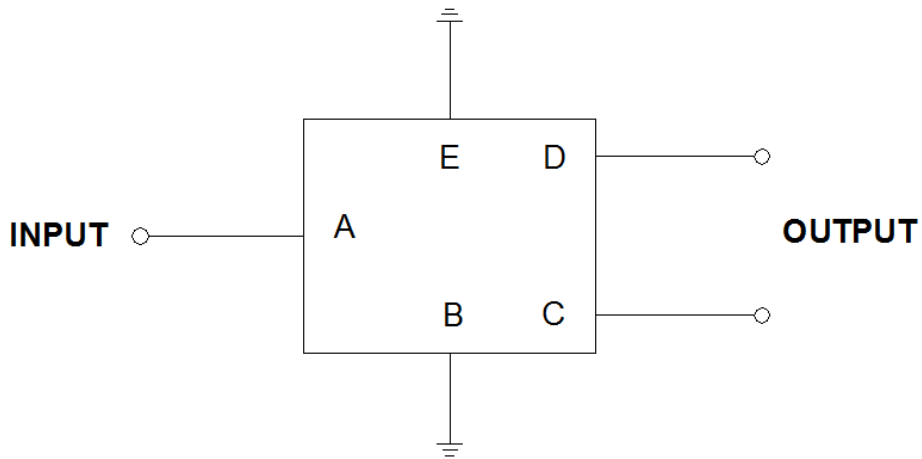
Amplitude balance



Phase balance



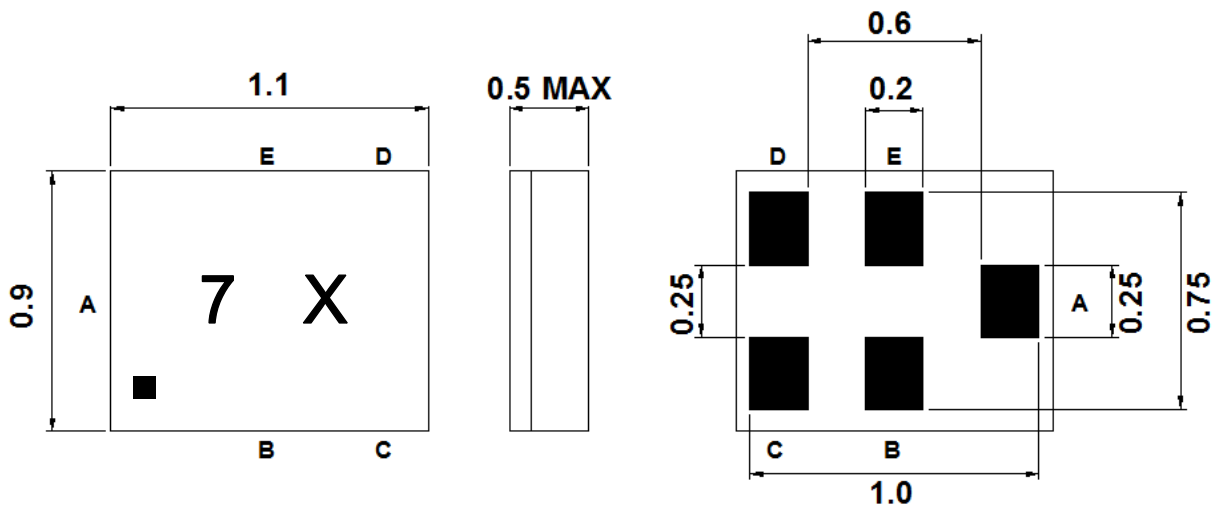
D. MEASUREMENT CIRCUIT:



Source Impedance: 50 Ω

Load Impedance: 100 Ω

E. OUTLINE DRAWING:



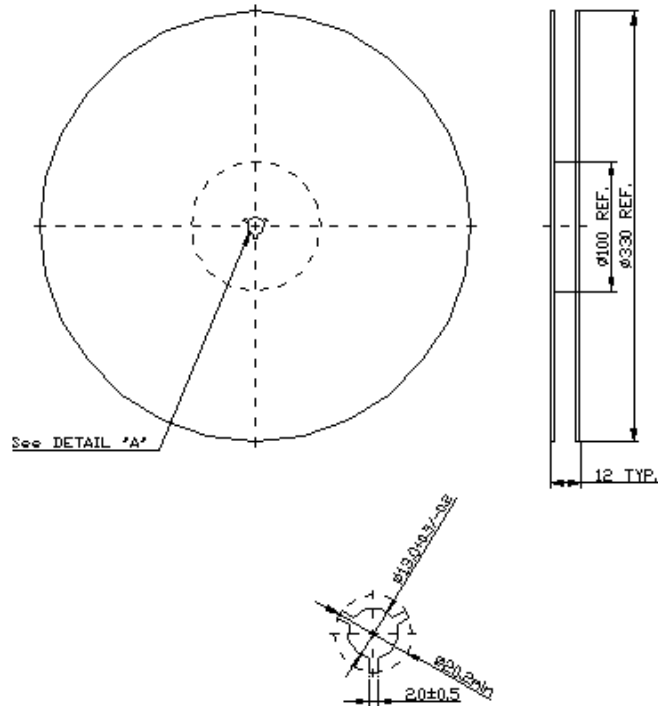
| Marking Descriptions | |
|----------------------|-----------------------|
| 7 | Series Number |
| X | Date Code(Year+Month) |

| Pin Description | |
|-----------------|-----------------|
| B, E | Ground |
| A | Input |
| C,D | Balanced Output |

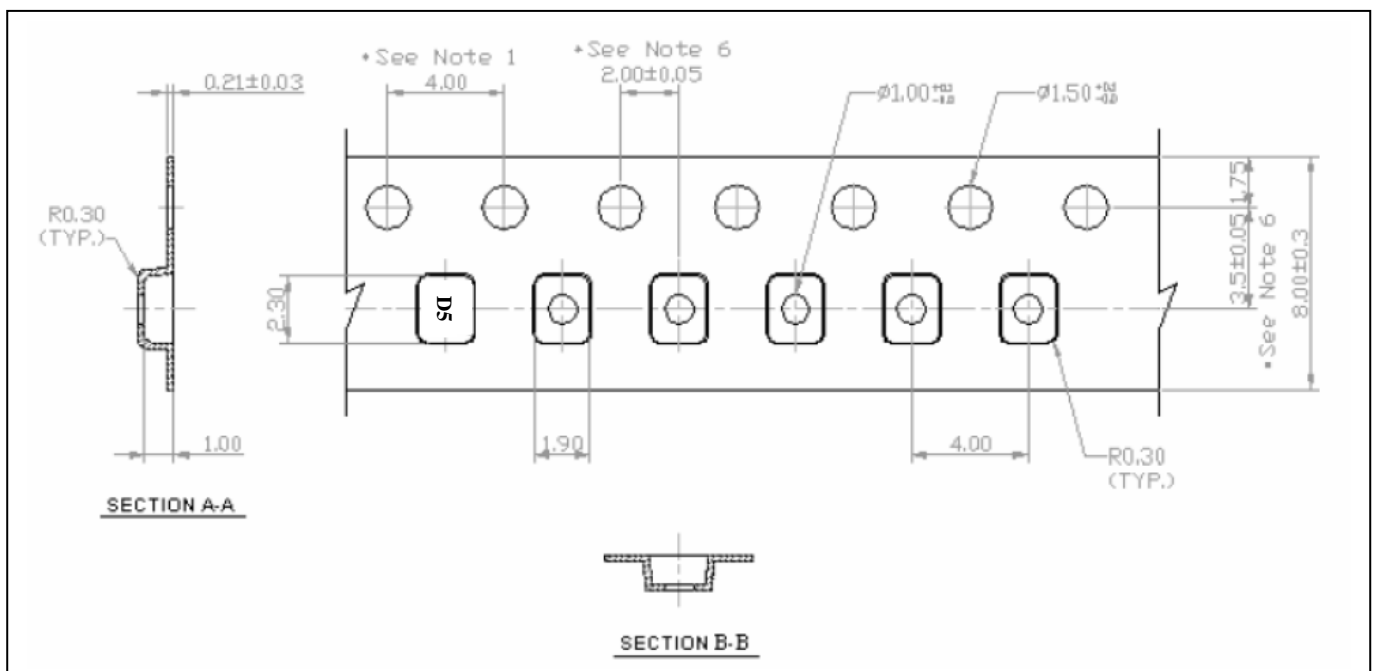
E. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



F. RECOMMENDED REFLOW PROFILE :

