

TAI-SAW TECHNOLOGY CO., LTD. No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

| Product Name: Duplexer 836 | .5/881.5MHz 2 | 5MHz BW SMD 3. | 8×3.8 mm |
|-----------------------------|---------------|----------------|----------|
| TST Parts No.: TF0072A | | | |
| Customer Part No.: | | | |
| | | | |
| Customer signature required | | | |
| Company: | | | |
| Division: | | | |
| Approved by : | | | |
| Date: | | | |
| Checked by: | Andy Yu | Andy In | _ |
| Approved by: | Bob Chau | phylm | _ |
| 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



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SAW Duplexer 836.5/881.5MHz 25MHz BW SMD 3.8×3.8 mm

MODEL NO.: TF0072A REV. No.: 1.0

A. MAXIMUM RATING:

1. Maximum Input Power: 1.2 W

2.DC voltage: 0 V

3.Operating Temperature: -30°C to +85°C 4.Storage Temperature: -40°C to +85°C

RoHS Compliant

Lead-free soldering

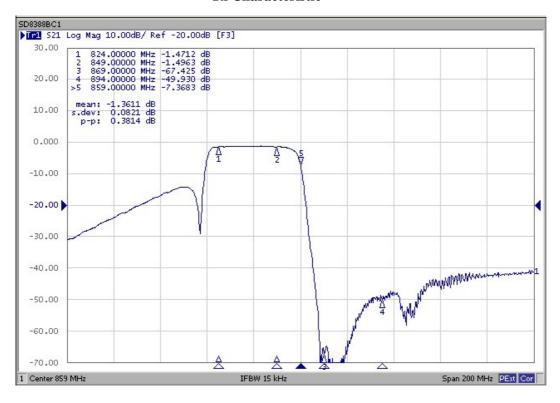
B. ELECTRICAL CHARACTERISTICS:

| Tx_836.5MHz <i>⊲</i> | | | SF | PECIFICATIO | TIONS₽ | | |
|---|-----------------------------|--------|-----------------|-------------|--------|--|--|
| ITEM√ CONDITION [MHz]√ | | Unitℯ | Min.₽ | Тур.₽ | Max.€ | | |
| Insertion Loss∢ | 824 ~ 849₽ | dB₽ | -47 | 1.5₽ | 2.2₽ | | |
| Ripple₽ | 824 ~ 849₽ | dBp-p↔ | -47 | 0.4₽ | 1.0₽ | | |
| VSWR ⁴ | 824 ~ 849₽ | -47 | -47 | 1.9₽ | 2.4₽ | | |
| Absolute Attenuation⊲ | 859₽ | dB₽ | 4₽ | 9₽ | -47 | | |
| ADSOIGLE ALLEHUALIUM | 869 ~ 894₽ | dB₽ | 45₽ | 50₽ | -4 | | |
| Rx_881. | | | SPECIFICATIONS₽ | | | | |
| ITEM€ CONDITION [MHz]€ | | Unit₽ | Min.₽ | Тур.₽ | Max.₽ | | |
| Insertion Loss | Insertion Loss 4 869 ~ 8944 | | -42 | 2.0₽ | 3.0₽ | | |
| Ripple₽ | Ripple ₽ 869 ~ 894₽ | | -47 | 0.8₽ | 1.5₽ | | |
| VSWR ⁴ 869 ~ 894 ⁴ | | -47 | -47 | 1.7₽ | 2.2₽ | | |
| Absolute Attenuation ₽ | 824 ~ 849₽ | dB₽ | 50₽ | 58₽ | -+2 | | |
| ADSUIGLE ACCENDATION | 859₽ | dB₽ | 4₽ | 13₽ | -+2 | | |
| Rx → | Rx → Tx [□] | | SPECIFICATIONS₽ | | | | |
| ITEM₽ | CONDITION [MHz]₽ | Unit₽ | Min.↔ | Тур.₽ | Max.₽ | | |
| lacistics 1 | 824 ~ 849₽ | dB₽ | 50₽ | 55₽ | -42 | | |
| Isolation <i>₽</i> | 869 ~ 894₽ | dB₽ | 48₽ | 53₽ | 4 | | |

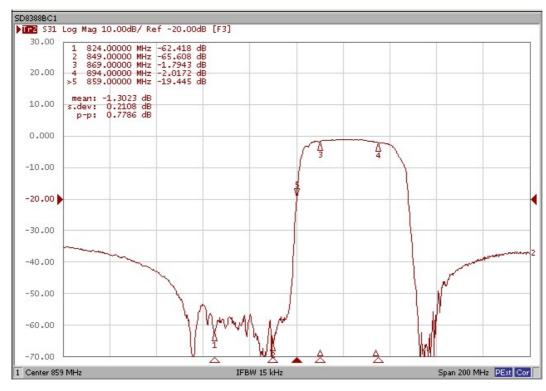
*Note : Including losses due to Test PCB(0.3dB)

C. Frequency Characteristics:

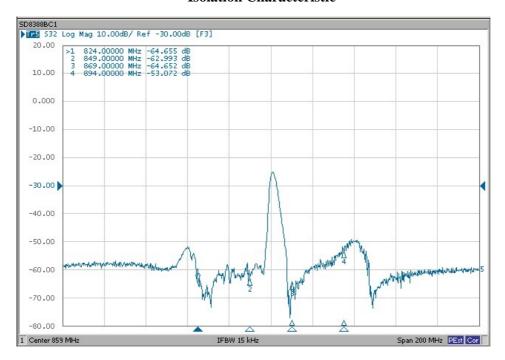
Tx Characteristic



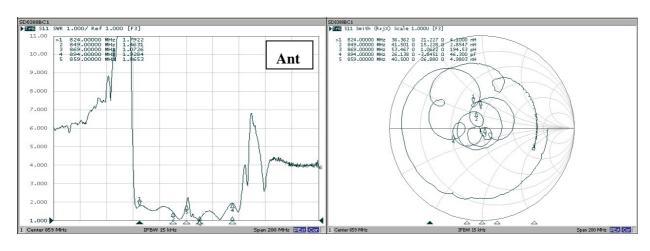
Rx Characteristic

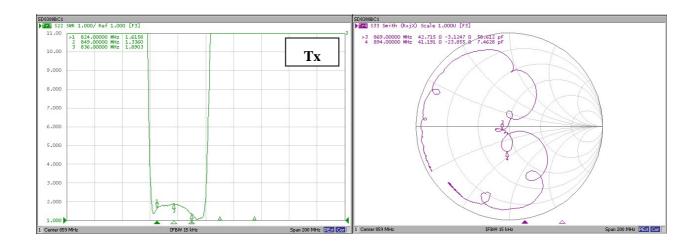


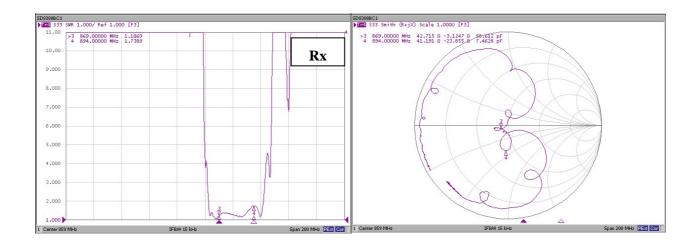
Isolation Characteristic



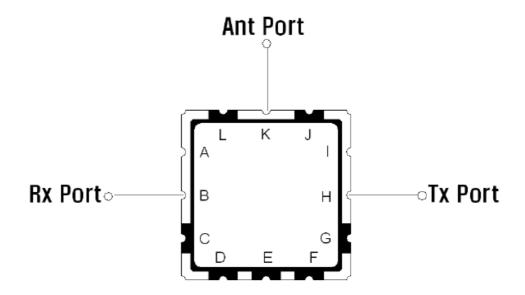
VSWR & Smith Chart





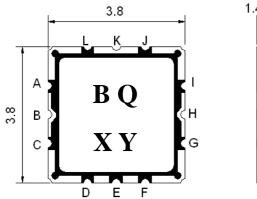


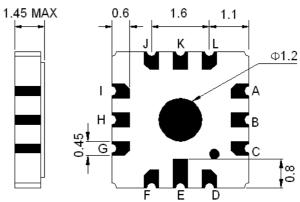
D. MEASUREMENT CIRCUIT:



E.OUTLINE DRAWING:

Unit: mm



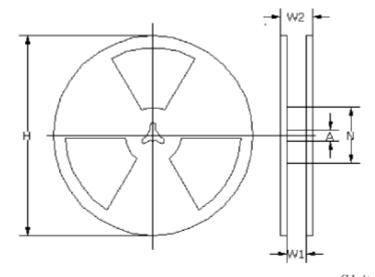


| Marking Descriptions | | | | | |
|----------------------|---------------------|--|--|--|--|
| В | CDMA800 Application | | | | |
| Q | SAW Duplexer | | | | |
| Х | Date Code(Year) | | | | |
| Y | Date Code(Month) | | | | |

| Pin Description | | | | | |
|---------------------------|--------------------|--|--|--|--|
| A, C, D, E, F, G, I, J, L | Ground | | | | |
| В | Rx Port(881.5MHz) | | | | |
| K | Antenna | | | | |
| Н | Tx Port (836.5MHz) | | | | |

E. PACKING:

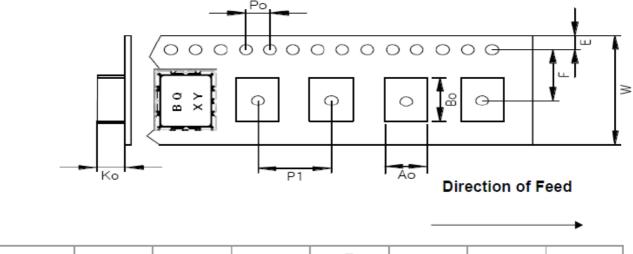
1. REEL DIMENSION



(Unit:mm)

| A | И | Н | W1 | W2 |
|---------|----------|------------|----------|----------|
| Φ13±0.5 | Φ62 ±1.0 | Ф330.0±1.0 | 12.0±1.0 | 16.0±1.0 |

2. TAPE DIMENSION



| A | В | K0 | W | Е | F | P0 | P1 |
|---------|---------|---------|----------|----------|---------|---------|---------|
| 3.4±0.1 | 3.4±0.1 | 1.4±0.1 | 12.0±0.3 | 1.75±0.1 | 5.5±0.1 | 4.0±0.1 | 8.0±0.1 |

F. RECOMMENDED REFLOW PROFILE:

