

Общество с ограниченной ответственностью
«Научно-производственное предприятие «Техно-ПАРК»
(ООО «НПП «Техно-ПАРК»)

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Технические характеристики фильтра на ПАВ TA2326D

Производитель: TAI-SAW TECHNOLOGY CO., LTD

Поставщик: ООО «НПП «Техно-ПАРК» - авторизованный дистрибьютор компании
TAI-SAW TECHNOLOGY CO., LTD

Научно-производственное предприятие ООО «НПП «Техно-ПАРК» разрабатывает и поставляет полосно-пропускающие радиочастотные фильтры на поверхностных акустических волнах (ПАВ) и устройства на их основе. «НПП «Техно-ПАРК» имеет собственную научную и производственную базу, а также является авторизованным дистрибьютором мирового лидера по производству фильтров на ПАВ компании TAI-SAW TECHNOLOGY CO., LTD

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

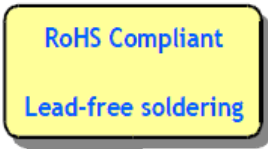
SAW Filter 2593 MHz Band 41 TRX SMD 1.4x1.1 mm

MODEL NO.: TA2326D

REV. NO.:1

A. MAXIMUM RATING:

1. Maximum Input Power: 29 dBm, 5000h 50 °C
2. Maximum DC Voltage: 0 V
3. Operating temperature range: -40 °C to +85 °C
4. Storage temperature range: -40 °C to +85 °C
5. Moisture Sensitivity Level: Level 3(MSL3)
6. ESD: 50 V(MM), 100 V(HBM)



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Z_s = 50 // 1.6nH \Omega$ (Single-ended)

Terminating load impedance: $Z_L = 50 // 2.0nH \Omega$ (Single-ended)

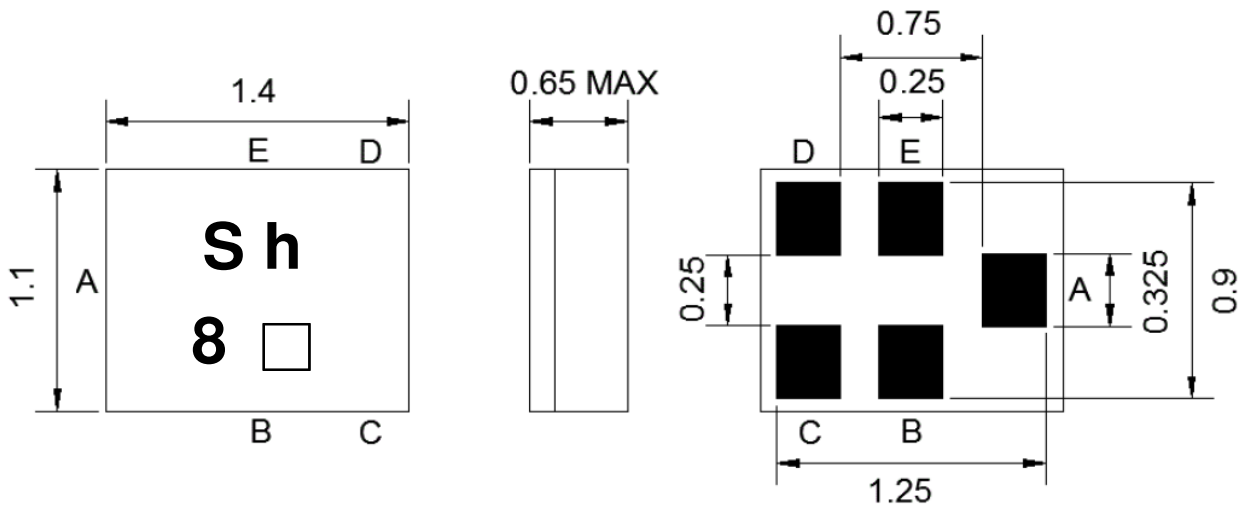
| Item | Unit | Min. | Typ. | Max. | Note |
|--|-------------------|------|------|------|------|
| Center Frequency Fc | MHz | - | 2593 | - | - |
| Insertion Loss (2496 ~ 2501 MHz) | IL | - | 3.0 | 6.0 | - |
| Insertion Loss (2501 ~ 2690 MHz) | IL | - | 2.6 | 4.5 | - |
| Insertion Loss (2500 ~ 2680 MHz) | IL | - | 2.6 | 4.8 | - |
| Insertion Loss (2680 ~ 2690 MHz) | IL | - | 2.6 | 3.5 | - |
| Insertion Loss (2555 ~ 2655 MHz) | IL | - | 1.8 | 2.8 | - |
| Insertion Loss (2545 ~ 2575 MHz) | IL | - | 1.4 | 2.5 | - |
| Insertion Loss (2620 ~ 2690 MHz) | IL | - | 2.6 | 3.3 | - |
| Amplitude Ripple (2496 ~ 2501 MHz) | dB _{p-p} | - | 0.7 | 3.6 | - |
| Amplitude Ripple (2501 ~ 2690 MHz) | dB _{p-p} | - | 1.3 | 3.0 | - |
| VSWR (2496 ~ 2501 MHz) | - | - | 1.4 | 2.0 | - |
| VSWR (2501 ~ 2690 MHz) | - | - | 1.6 | 2.0 | - |
| Attenuation (reference level from 0 dB) | | | | | |
| DC ~ 916 MHz | dB | 40 | 46 | - | - |
| 925 ~ 960 MHz | dB | 37 | 44 | - | - |
| 1226.57 ~ 1228.63 MHz | dB | 27 | 37 | - | - |
| 1242.42 ~ 1249.14 MHz | dB | 27 | 36 | - | - |

| | | | | | |
|---------------------|----|----|----|---|-------|
| 1248 ~ 1564 MHz | dB | 22 | 28 | - | - |
| 1559 ~ 1605.89 MHz | dB | 22 | 28 | - | - |
| 1615 ~ 2400 MHz | dB | 12 | 16 | - | - |
| 1710 ~ 1785 MHz | dB | 17 | 23 | - | - |
| 1805 ~ 1850 MHz | dB | 17 | 21 | - | - |
| 1880 ~ 1920 MHz | dB | 17 | 20 | - | - |
| 1920 ~ 1980 MHz | dB | 13 | 18 | - | - |
| 2110 ~ 2170 MHz | dB | 10 | 14 | - | - |
| 2401 ~ 2468 MHz | dB | 20 | 35 | - | - |
| 2452.5 ~ 2466.5 MHz | dB | 27 | 33 | - | +25°C |
| 2452.5 ~ 2466.5 MHz | dB | 20 | 33 | - | - |
| 2467.5 ~ 2471.5 MHz | dB | 20 | 28 | - | +25°C |
| 2467.5 ~ 2471.5 MHz | dB | 8 | 28 | - | - |
| 2472.5 ~ 2476.5 MHz | dB | 10 | 21 | - | +25°C |
| 2472.5 ~ 2476.5 MHz | dB | 4 | 21 | - | - |
| 2775 ~ 4992 MHz | dB | 15 | 19 | - | - |
| 4992 ~ 5380 MHz | dB | 25 | 33 | - | - |
| 5381 ~ 7487 MHz | dB | 25 | 37 | - | - |
| 7488 ~ 8070 MHz | dB | 25 | 38 | - | - |
| 4992 ~ 5380 MHz | dB | 25 | 33 | - | - |
| 5381 ~ 7487 MHz | dB | 25 | 37 | - | - |
| 7488 ~ 8070 MHz | dB | 25 | 38 | - | - |

C. OUTLINE DRAWING:

top view

bottom view



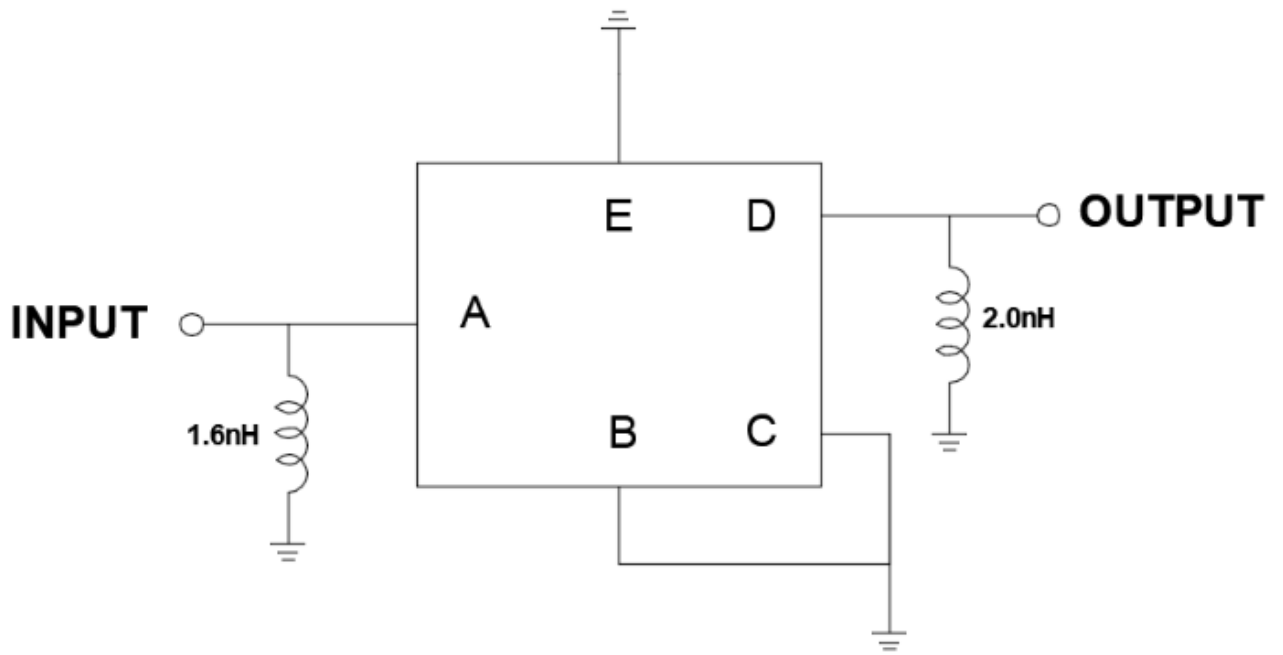
| Pin Description | |
|-----------------|--------|
| B, C, E | Ground |
| A | Input |
| D | Output |

| Marking Descriptions | |
|--------------------------|-----------------------|
| <input type="checkbox"/> | Date Code(Year+Month) |

: Year/Month Code (Follow the table)

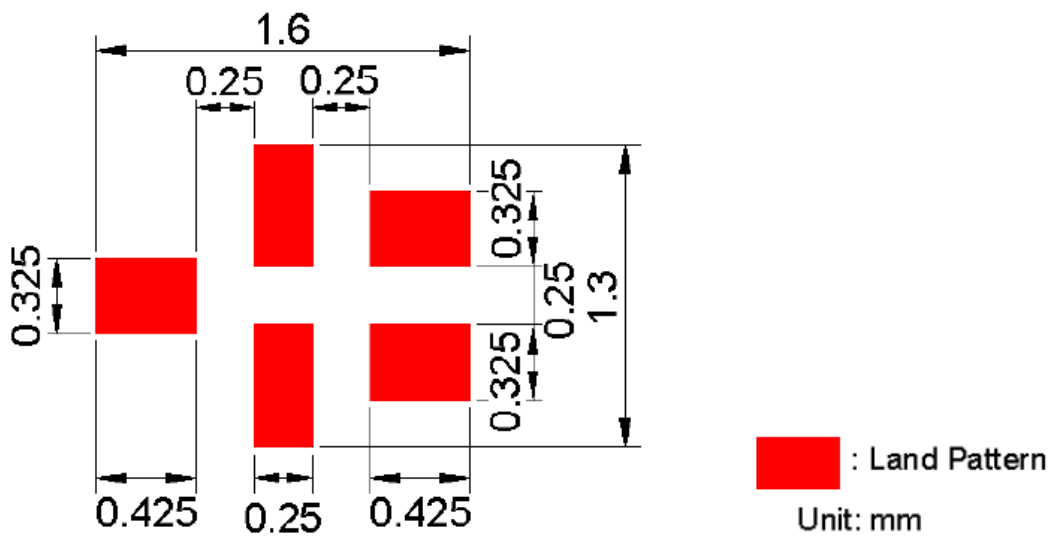
| YEAR/Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2013 | A | B | C | D | E | F | G | H | J | K | L | M |
| 2014 | N | P | Q | R | S | T | U | V | W | X | Y | Z |
| 2015 | a | b | c | d | e | f | g | h | j | k | l | m |
| 2016 | n | p | q | r | s | t | u | v | w | x | y | z |
| 2017 | <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> | <u>G</u> | <u>H</u> | <u>J</u> | <u>K</u> | <u>L</u> | <u>M</u> |
| 2018 | <u>N</u> | <u>P</u> | <u>Q</u> | <u>R</u> | <u>S</u> | <u>T</u> | <u>U</u> | <u>V</u> | <u>W</u> | <u>X</u> | <u>Y</u> | <u>Z</u> |
| 2019 | <u>a</u> | <u>b</u> | <u>c</u> | <u>d</u> | <u>e</u> | <u>f</u> | <u>g</u> | <u>h</u> | <u>i</u> | <u>k</u> | <u>l</u> | <u>m</u> |
| 2020 | <u>n</u> | <u>p</u> | <u>q</u> | <u>r</u> | <u>s</u> | <u>t</u> | <u>u</u> | <u>v</u> | <u>w</u> | <u>x</u> | <u>y</u> | <u>z</u> |

D. MEASUREMENT CIRCUIT:

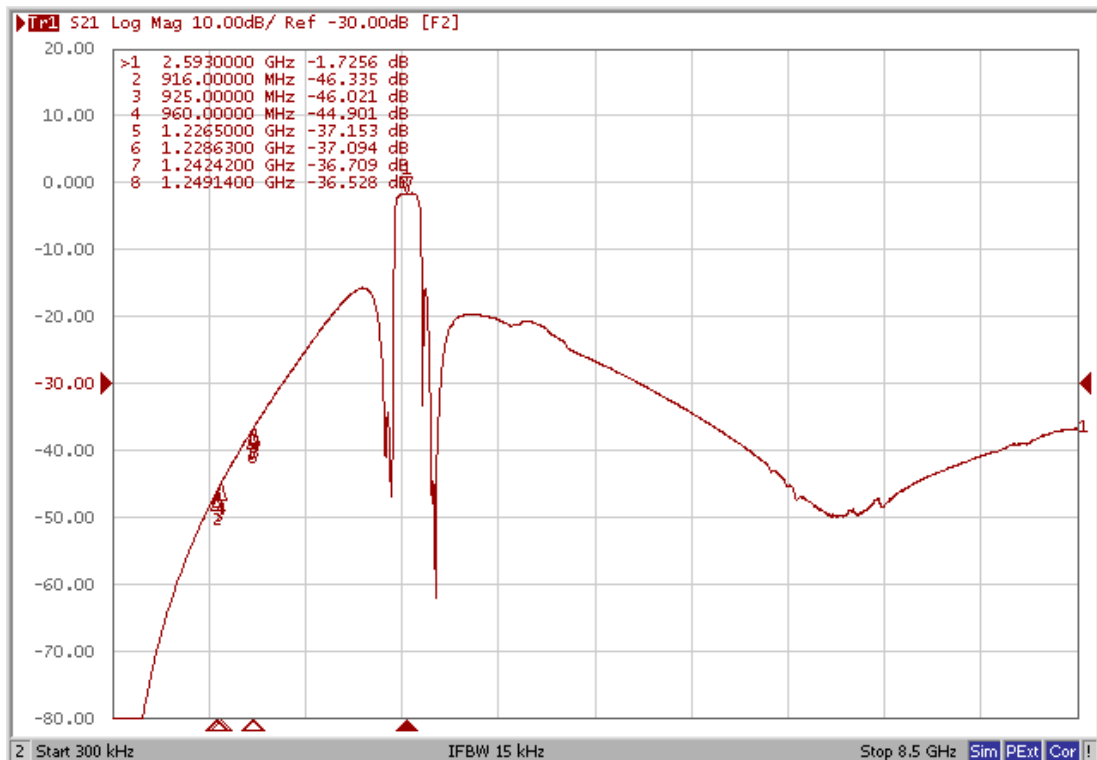
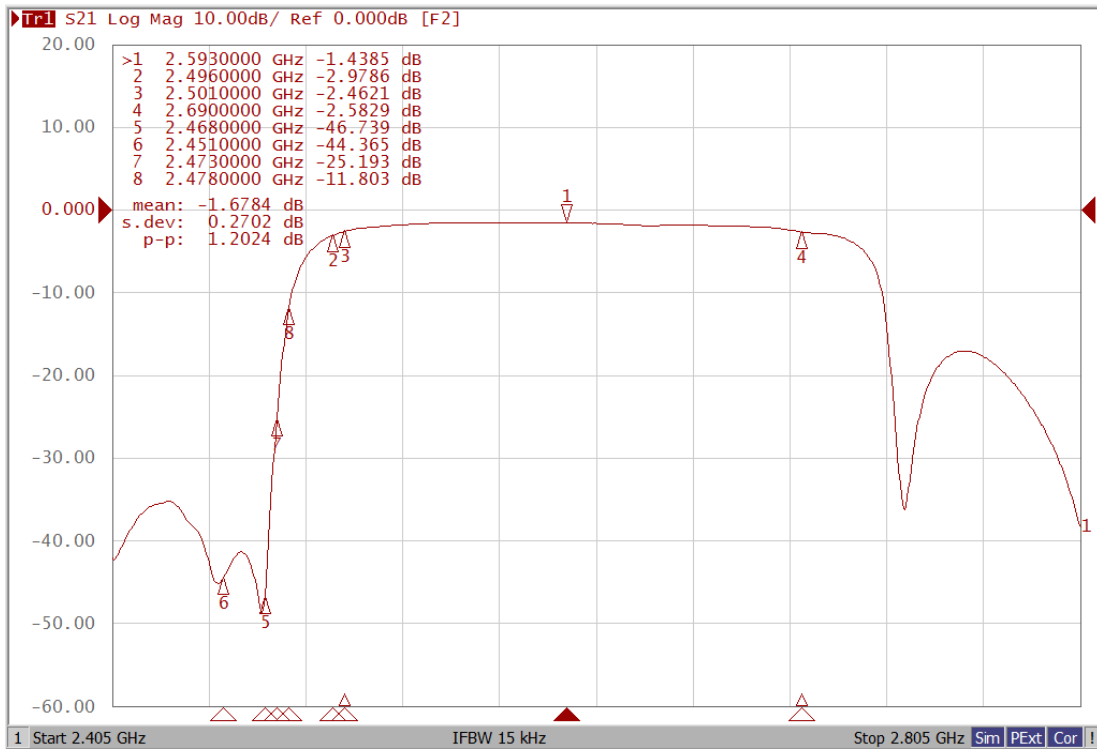


Source & Load Impedance: 50 Ω

E. PCB Footprint :

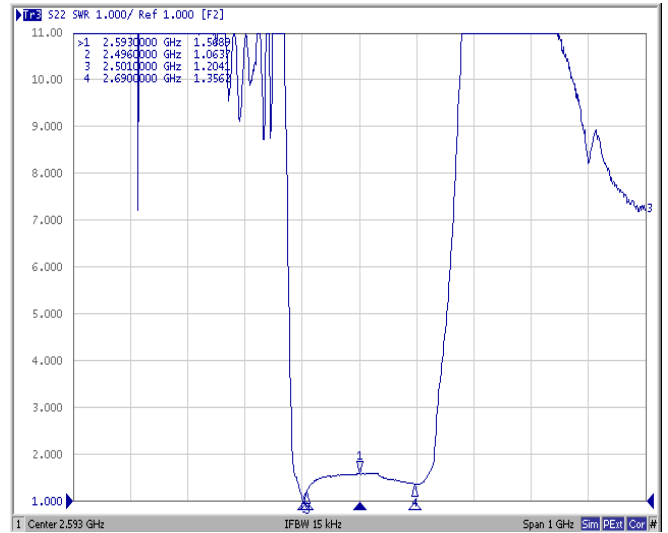
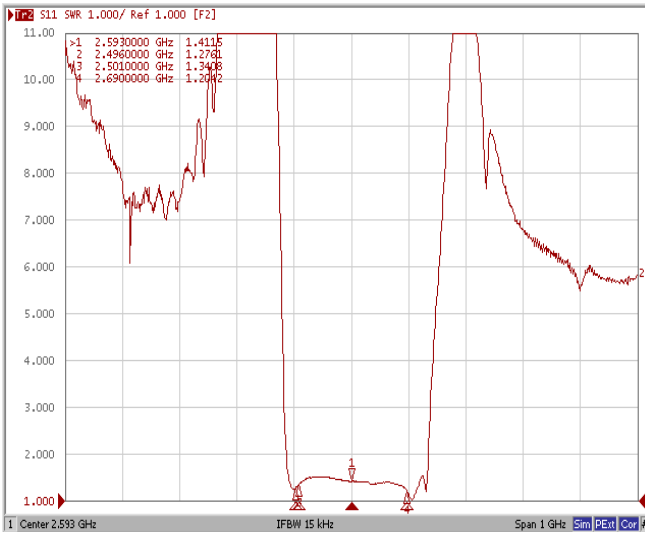


F. Frequency Characteristics:

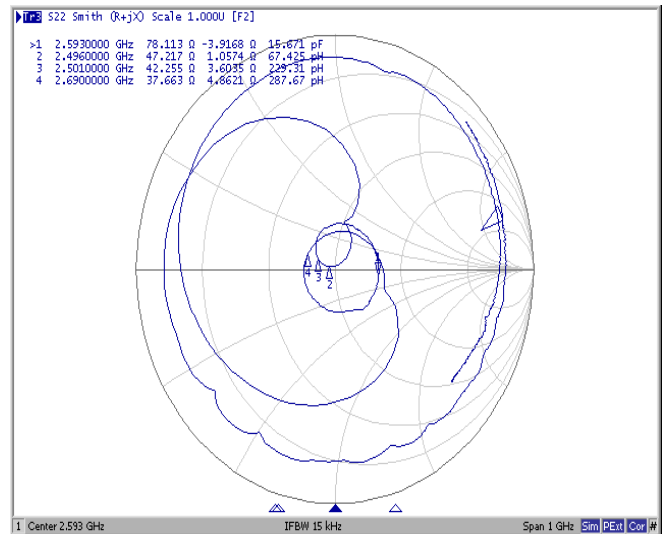
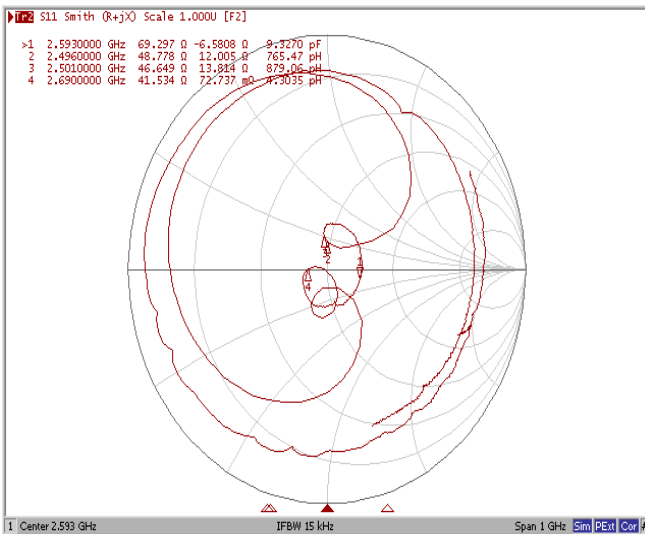


Reflection Functions:

VSWR



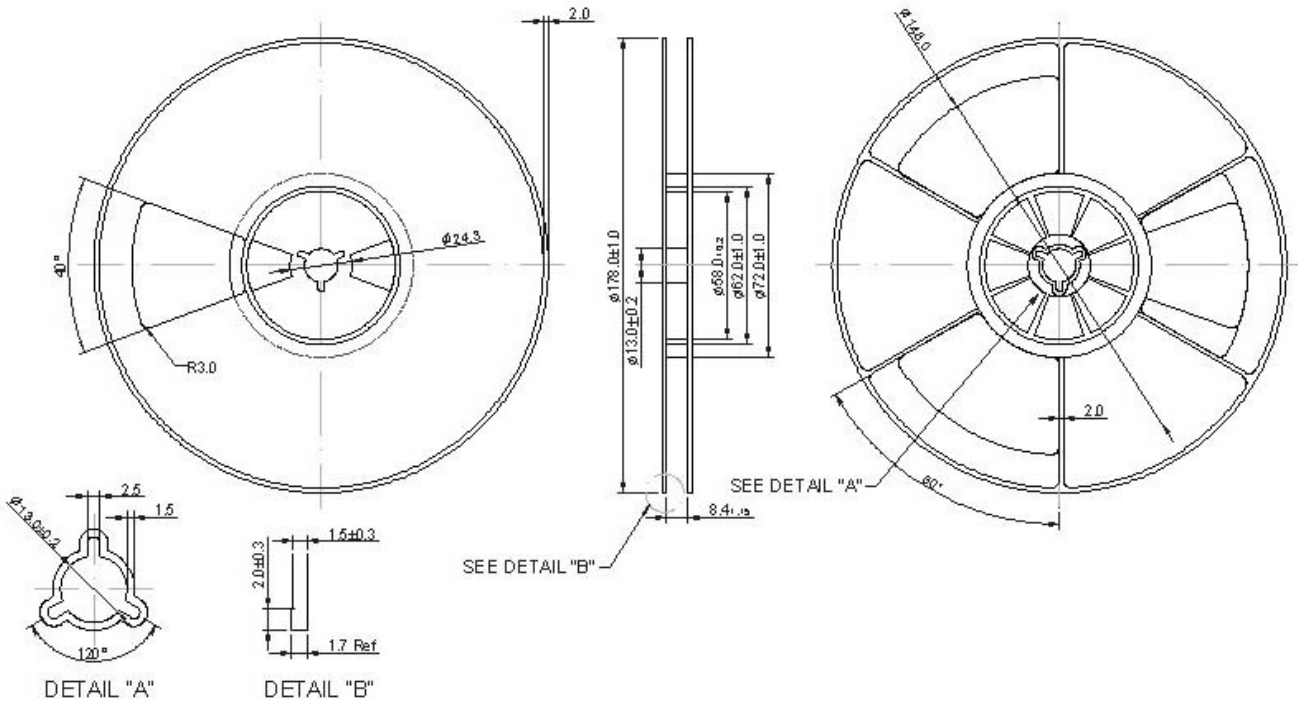
Smith Chart



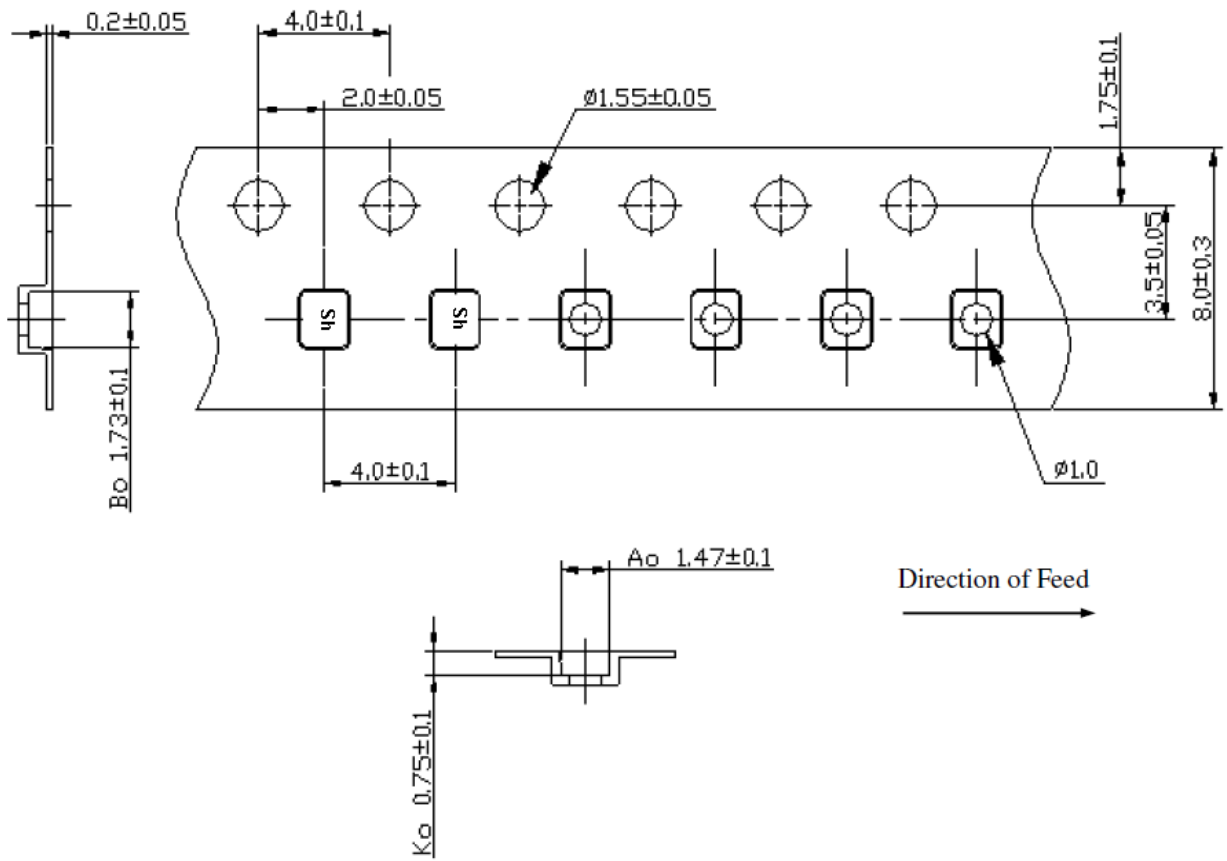
G. PACKING: (Ref. WI-75M03)

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10sec).
4. Time: 2 times.

