

Datasheet of SAW Filter

1411 GPS

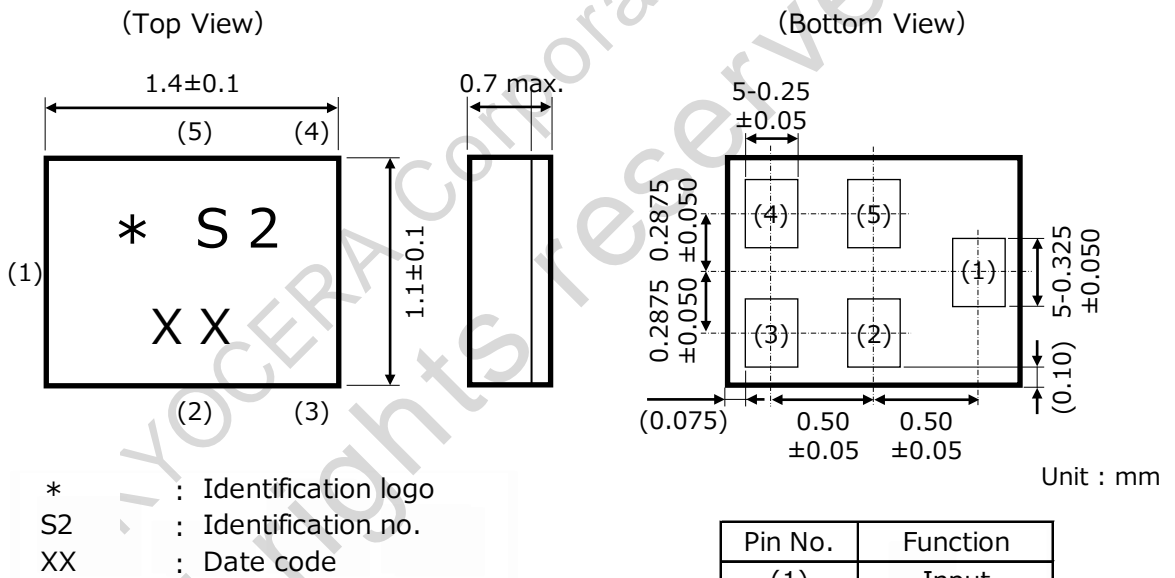
KYOCERA Part No. : SF14-1575M5UBB1

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Rating

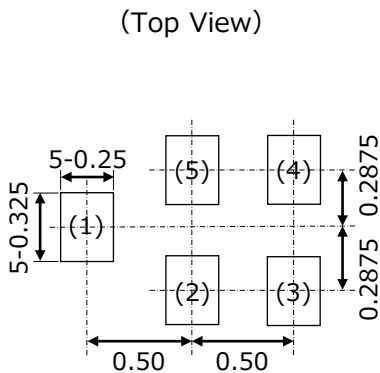
| Items | Rating | Unit | Note |
|-------------------------------|------------|-------|----------------------------|
| Operating Temperature Range | -30 to +85 | deg.C | |
| Storage Temperature Range | -40 to +85 | deg.C | |
| Max Input Power | +12 | dBm | 5,000Hours, Ta=50deg.C, CW |
| Input Port Nominal Impedance | 50 | ohm | Unbalance |
| Output Port Nominal Impedance | 100 | ohm | Balance |

Dimensions

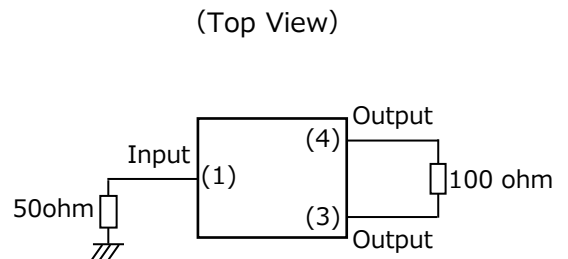


| Pin No. | Function |
|---------|----------|
| (1) | Input |
| (3) | Output |
| (4) | Output |
| Others | GND |

Recommendable Land Pattern



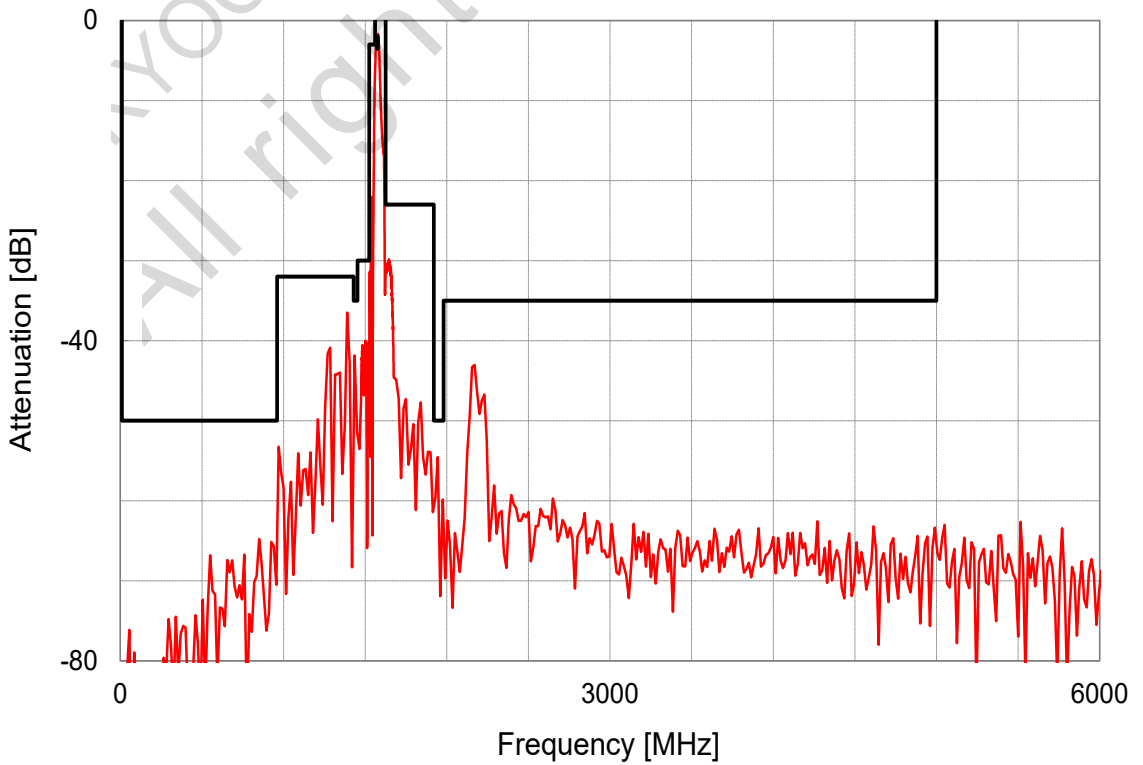
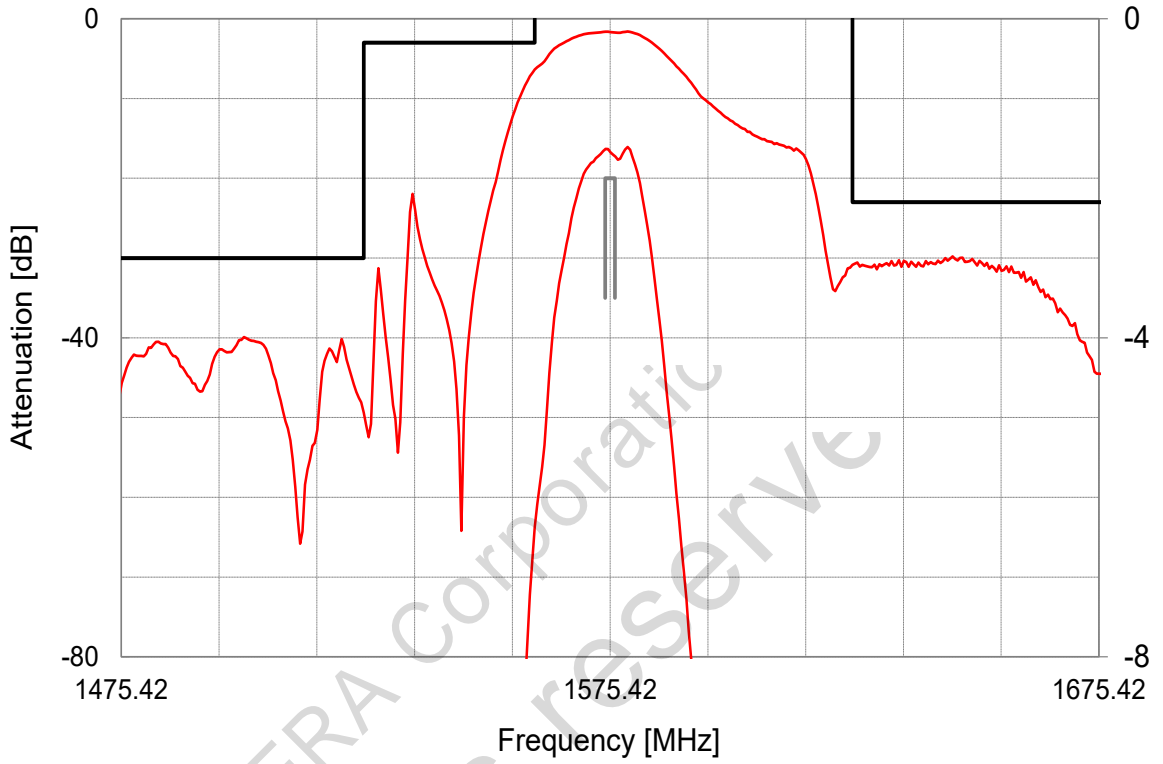
Measurement Circuit



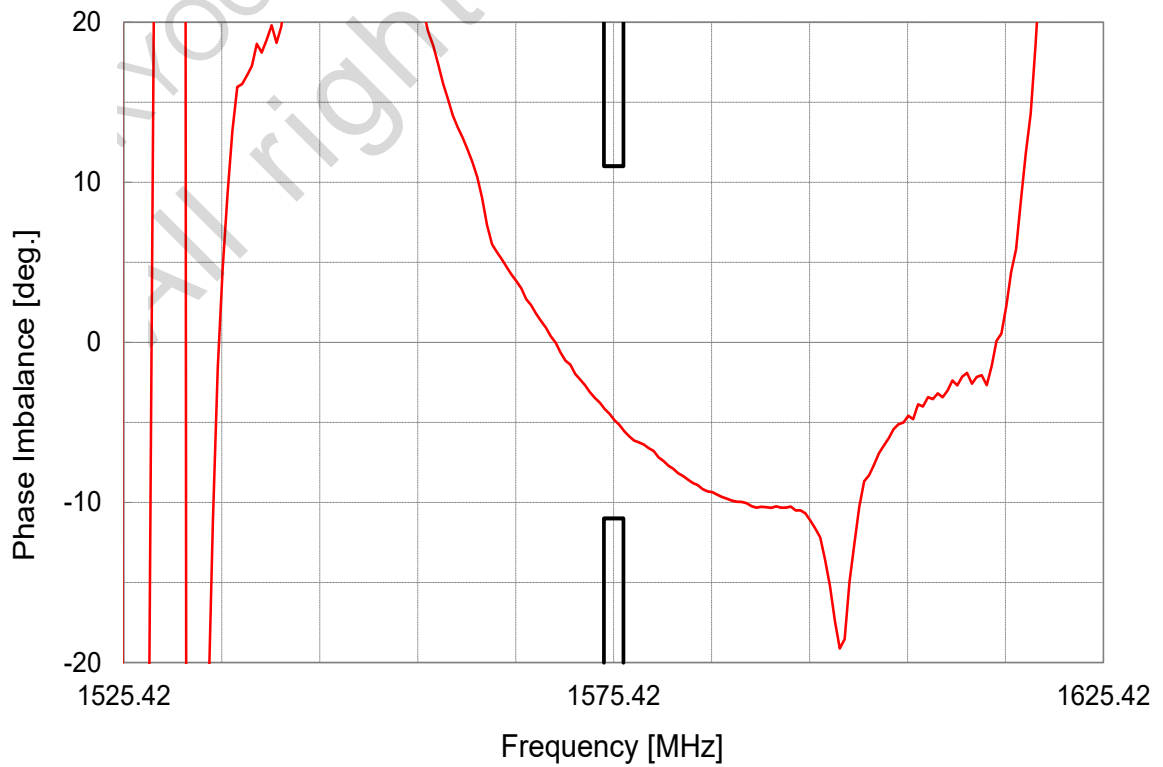
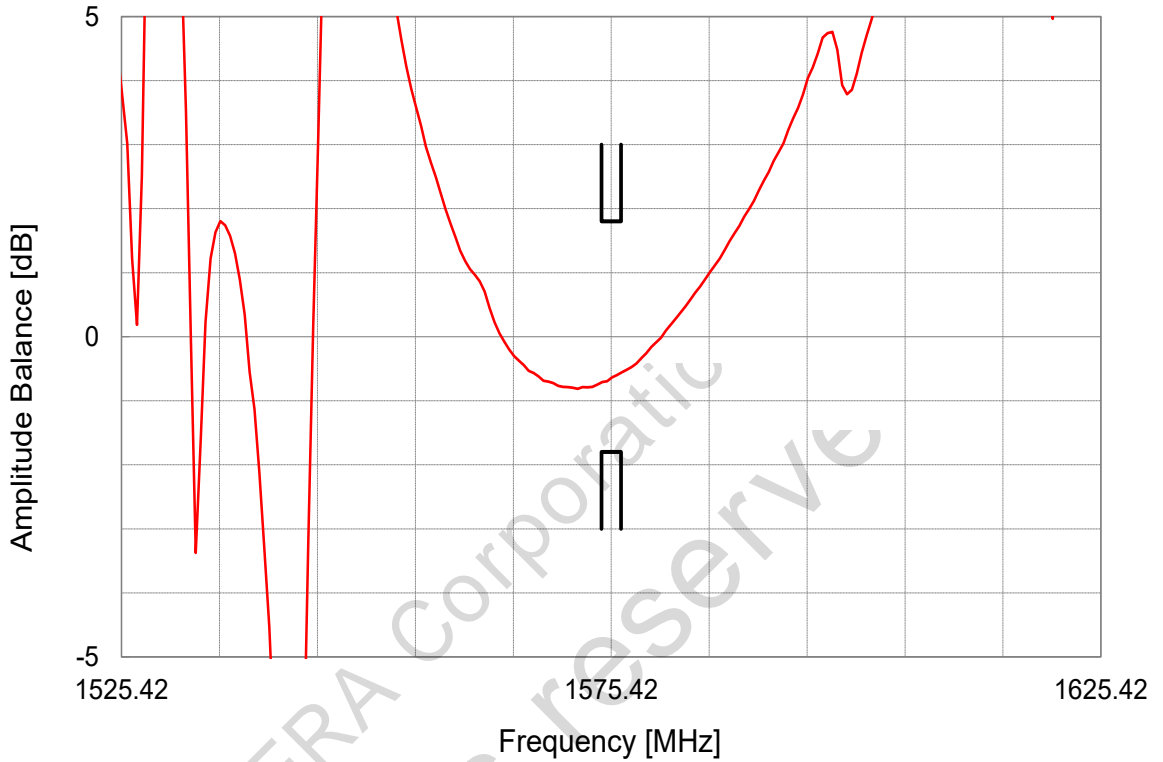
Electrical Characteristics

| | Frequency (MHz) | Characteristics | | | Unit | Note |
|--------------------------------|--------------------|-----------------|------|------|------|------|
| | | min. | typ. | max. | | |
| Nominal Frequency | - | 1575.42 | | | MHz | |
| Insertion Loss | 1574.42 to 1576.42 | - | 1.7 | 2.0 | dB | |
| Amplitude Ripple(peak to peak) | 1574.42 to 1576.42 | - | 0.05 | 1.0 | dB | |
| Input VSWR | 1574.42 to 1576.42 | - | 1.3 | 1.8 | - | |
| Output VSWR | 1574.42 to 1576.42 | - | 1.1 | 1.8 | - | |
| Absolute Attenuation | 10 to 250 | 50 | 76 | - | dB | |
| | 250 to 810 | 50 | 63 | - | dB | |
| | 810 to 960 | 50 | 58 | - | dB | |
| | 960 to 1429 | 32 | 36 | - | dB | |
| | 1429 to 1453 | 35 | 40 | - | dB | |
| | 1453 to 1525 | 30 | 38 | - | dB | |
| | 1525 to 1560 | 3 | 6 | - | dB | |
| | 1625 to 1920 | 23 | 28 | - | dB | |
| | 1920 to 1980 | 50 | 54 | - | dB | |
| 1980 to 5000 | 35 | 42 | - | dB | | |
| Amplitude Imbalance | 1574.42 to 1576.42 | -1.8 | -0.6 | +1.8 | dB | |
| Phase Imbalance | 1574.42 to 1576.42 | -11.0 | -4.5 | +11 | deg. | |

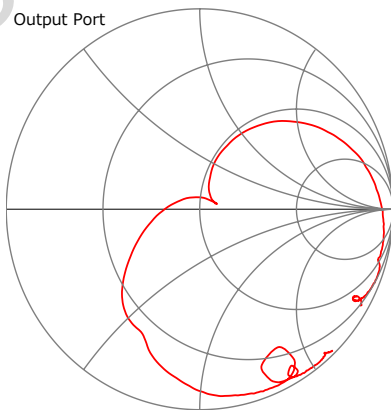
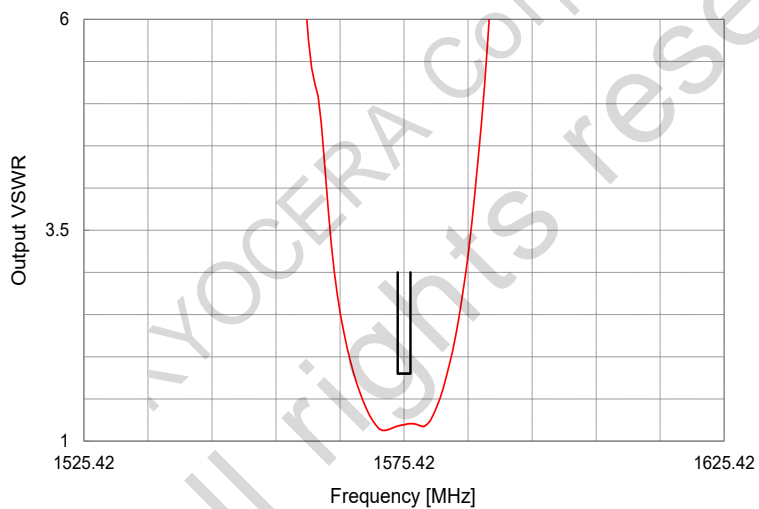
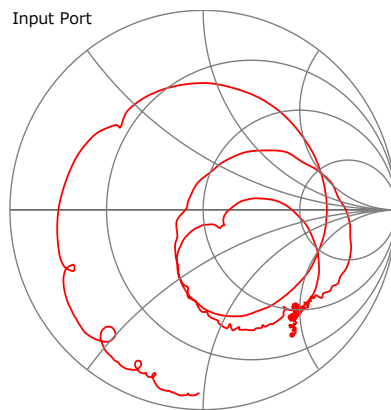
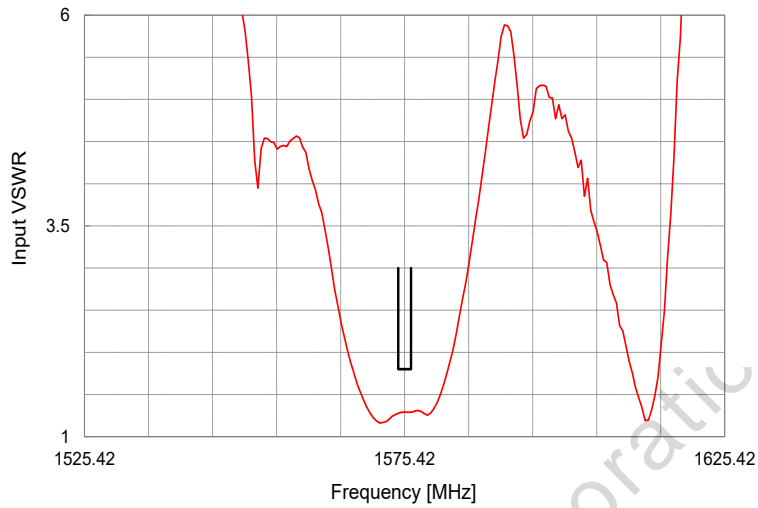
Electrical Characteristics



Electrical Characteristics

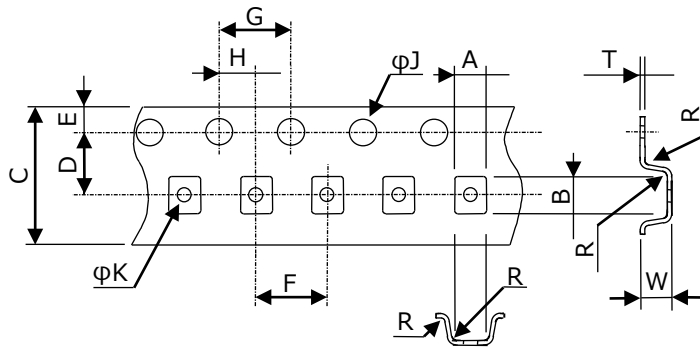


Electrical Characteristics



Tape & Reel Specification

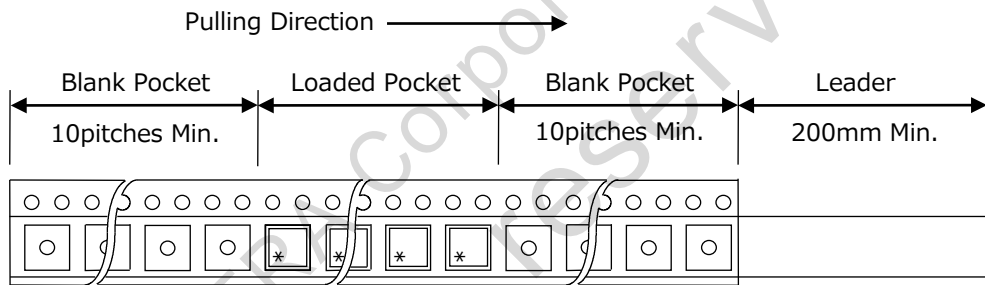
[Tape]



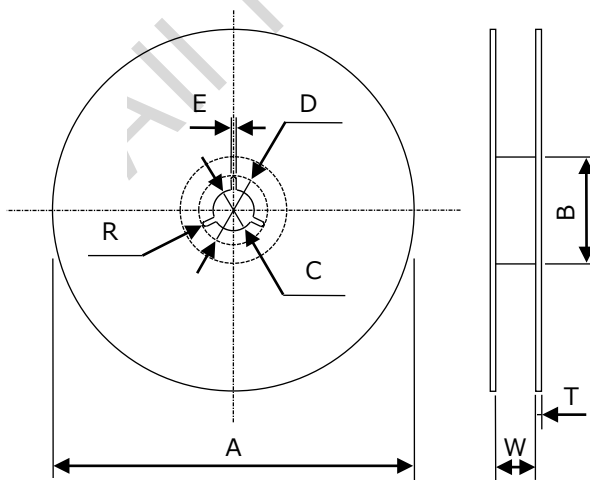
Unit : mm

| Part | Dimension |
|------|------------|
| A | 1.30±0.05 |
| B | 1.60±0.05 |
| C | 8.00±0.15 |
| D | 3.50±0.05 |
| E | 1.75±0.10 |
| F | 4.0±0.1 |
| G | 4.0±0.1 |
| H | 2.00±0.05 |
| φJ | 1.5+0.1/-0 |
| φK | 0.5±0.1 |
| R | 0.2 Max |
| W | 0.70±0.05 |
| T | 0.20±0.05 |

W : Dimension is depth of pockets.



[Reel]



Unit : mm

| Part | Dimension |
|------|------------|
| A | 178 ± 2 |
| B | 60 ± 2 |
| C | 13.0 ± 0.2 |
| D | 21.0 ± 0.8 |
| E | 2.0 ± 0.5 |
| R | 1 |
| W | 9.5 ± 1.0 |
| T | 2.0 ± 0.2 |

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