

Datasheet of SAW Duplexer 2520 Band28 for Base station

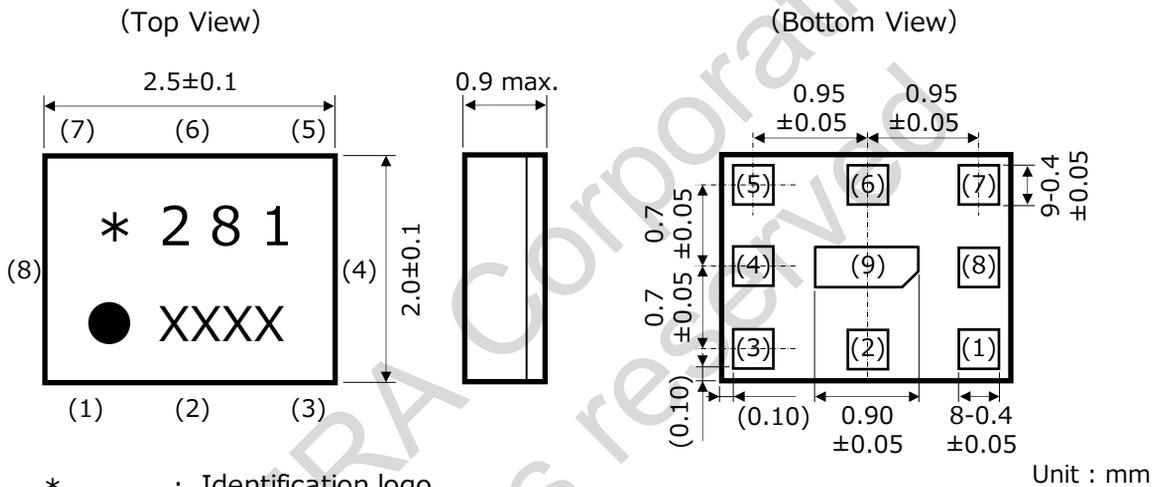
KYOCERA Part No. : SD25-0780R9UUA1

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Rating

| Items | Rating | Unit | Note |
|-----------------------------|------------|-------|--|
| Operating Temperature Range | -40 to +95 | deg.C | |
| Storage Temperature Range | -40 to +95 | deg.C | |
| Max Input Power (Tx port) | +27 | dBm | LTE 5MHz (PAR=6.95dB) 10 years @85deg.C |
| Tx Port Nominal Impedance | 50+3.0nH | ohm | Unbalance |
| Ant. Port Nominal Impedance | 50//10nH | ohm | Unbalance |
| Rx Port Nominal Impedance | 50+10nH | ohm | Unbalance |

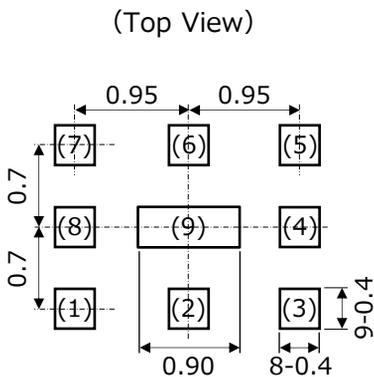
Dimensions



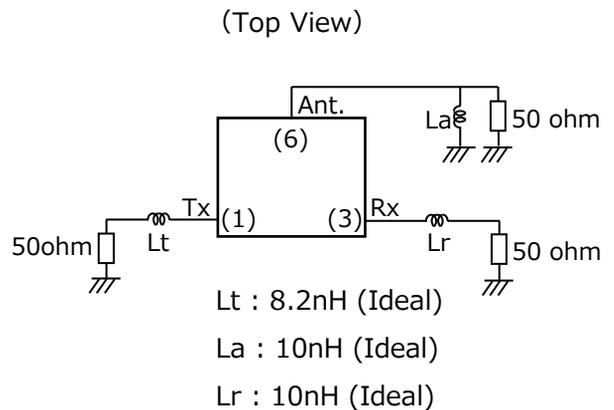
- * : Identification logo
- 281 : Identification no.
- : Index mark of pin 1
- XXXX : Production code

| Pin No. | Function |
|---------|----------|
| (1) | Tx |
| (3) | Rx |
| (6) | Ant. |
| Others | GND |

Recommendable Land Pattern



Measurement Circuit

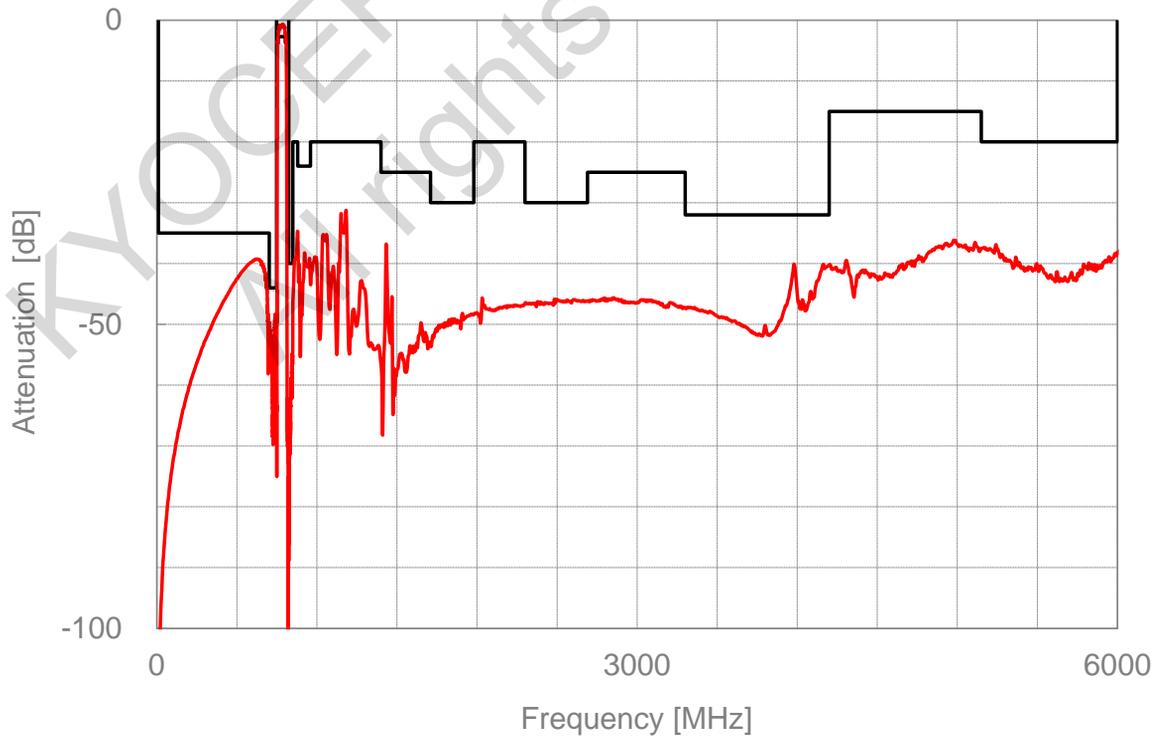
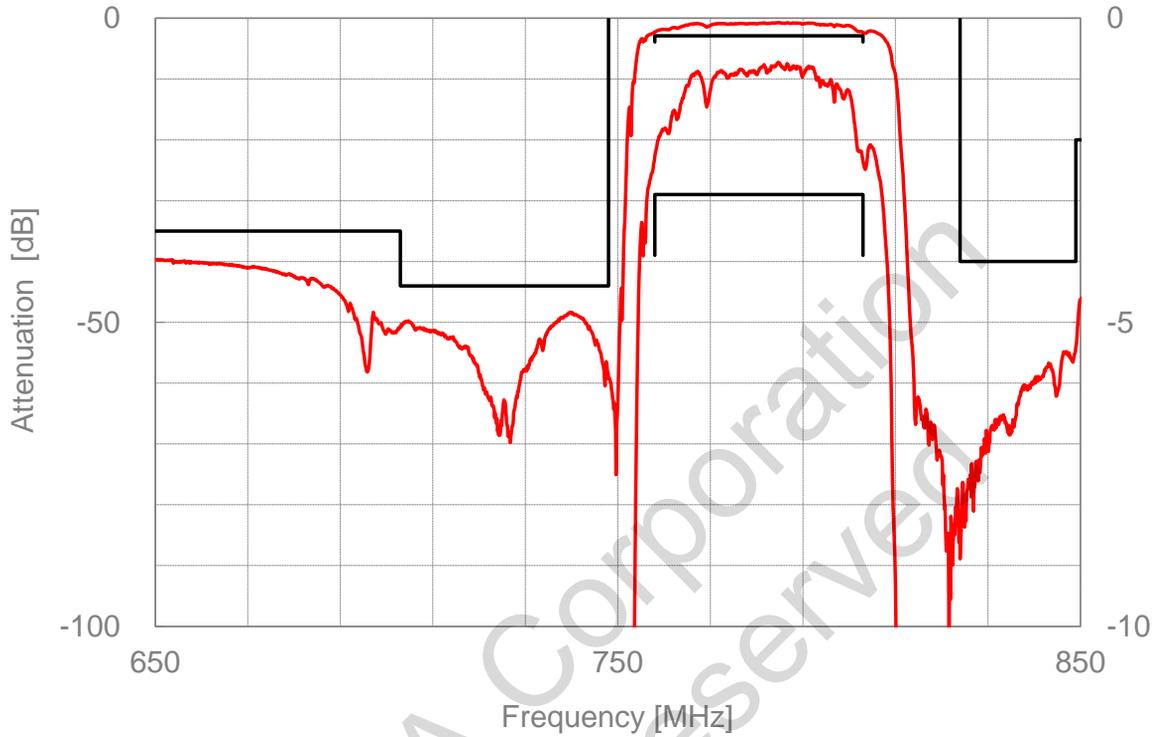


Electrical Characteristics

| ITEMS | | Frequency (MHz) | Characteristics | | | Unit | Note | |
|-------------|----------------|--------------------|-----------------|------|------|------|-----------------------|--|
| | | | min. | typ. | max. | | | |
| Tx to Ant | Insertion Loss | 758 - 803 | - | 1.7 | 2.9 | dB | Average over any 5MHz | |
| | Ripple | 758 - 803 | - | 1.9 | 2.9 | dB | | |
| | VSWR | Tx | 758 - 803 | - | 1.6 | 2.3 | - | |
| | | Ant. | 758 - 803 | - | 1.6 | 2.3 | - | |
| | Attenuation | | 10 - 703 | 35 | 39 | - | dB | |
| | | | 703 - 748 | 44 | 48 | - | dB | |
| | | | 824 - 849 | 40 | 55 | - | dB | |
| | | | 849 - 880 | 20 | 35 | - | dB | |
| | | | 880 - 960 | 24 | 35 | - | dB | |
| | | | 960 - 1400 | 20 | 31 | - | dB | |
| | | | 1400 - 1710 | 25 | 34 | - | dB | |
| | | | 1710 - 1980 | 30 | 48 | - | dB | |
| | | | 1980 - 2300 | 20 | 46 | - | dB | |
| | | | 2300 - 2690 | 30 | 46 | - | dB | |
| | 2690 - 3300 | 25 | 46 | - | dB | | | |
| | 3300 - 4200 | 32 | 39 | - | dB | | | |
| 4200 - 5150 | 15 | 36 | - | dB | | | | |
| 5150 - 6000 | 20 | 37 | - | dB | | | | |
| Ant to Rx | Insertion Loss | 703 - 748 | - | 1.4 | 2.6 | dB | Average Over any 5MHz | |
| | Ripple | 703 - 748 | - | 1.4 | 3.2 | dB | | |
| | VSWR | Rx | 703 - 748 | - | 1.8 | 2.2 | - | |
| | | Ant. | 703 - 748 | - | 1.7 | 2.2 | - | |
| | Attenuation | | 10 - 683 | 25 | 28 | - | dB | |
| | | | 758 - 803 | 31 | 43 | - | dB | |
| | | | 803 - 960 | 17 | 26 | - | dB | |
| | | | 960 - 1805 | 17 | 23 | - | dB | |
| | | | 1805 - 1880 | 29 | 32 | - | dB | |
| | | | 1880 - 2110 | 24 | 28 | - | dB | |
| | | | 2110 - 2690 | 26 | 30 | - | dB | |
| | | | 2690 - 3300 | 24 | 29 | - | dB | |
| | | | 3300 - 4200 | 21 | 24 | - | dB | |
| 4200 - 5150 | | | 15 | 26 | - | dB | | |
| 5150 - 6000 | 17 | 30 | - | dB | | | | |
| Tx to Rx | Isolaion | 703 - 748 | 46 | 50 | - | dB | Average over any 5MHz | |
| | | 758 - 803 | 35 | 50 | - | dB | Average over any 5MHz | |

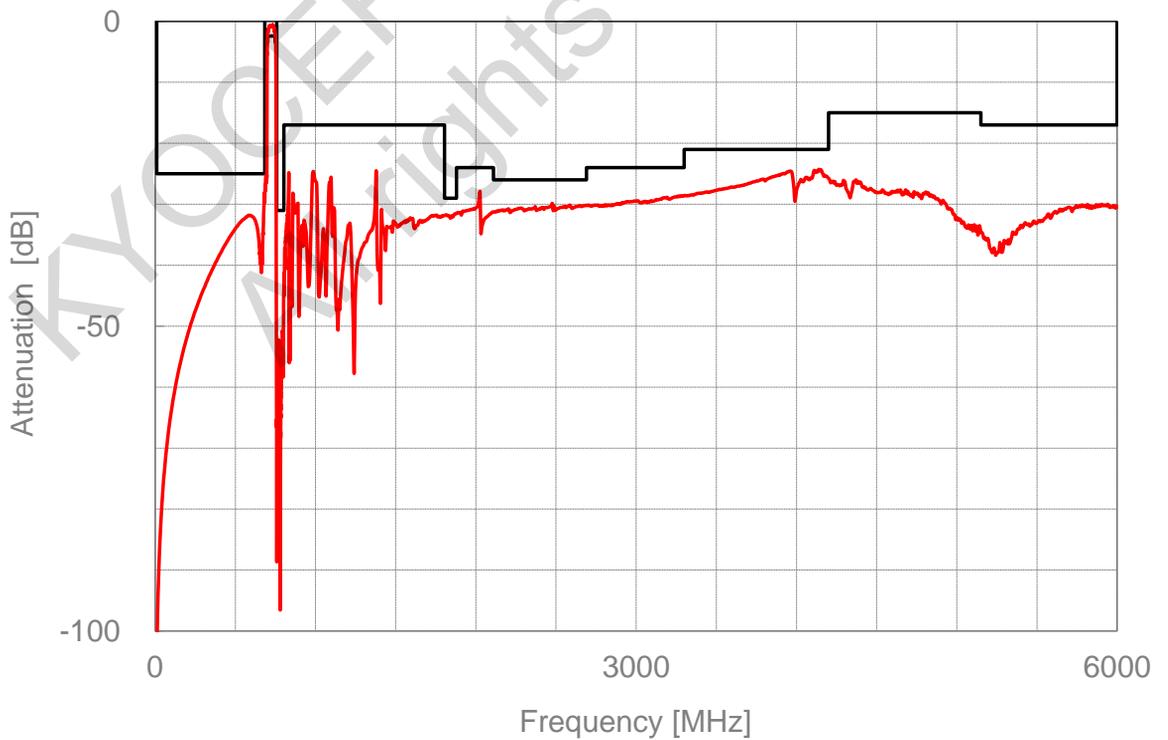
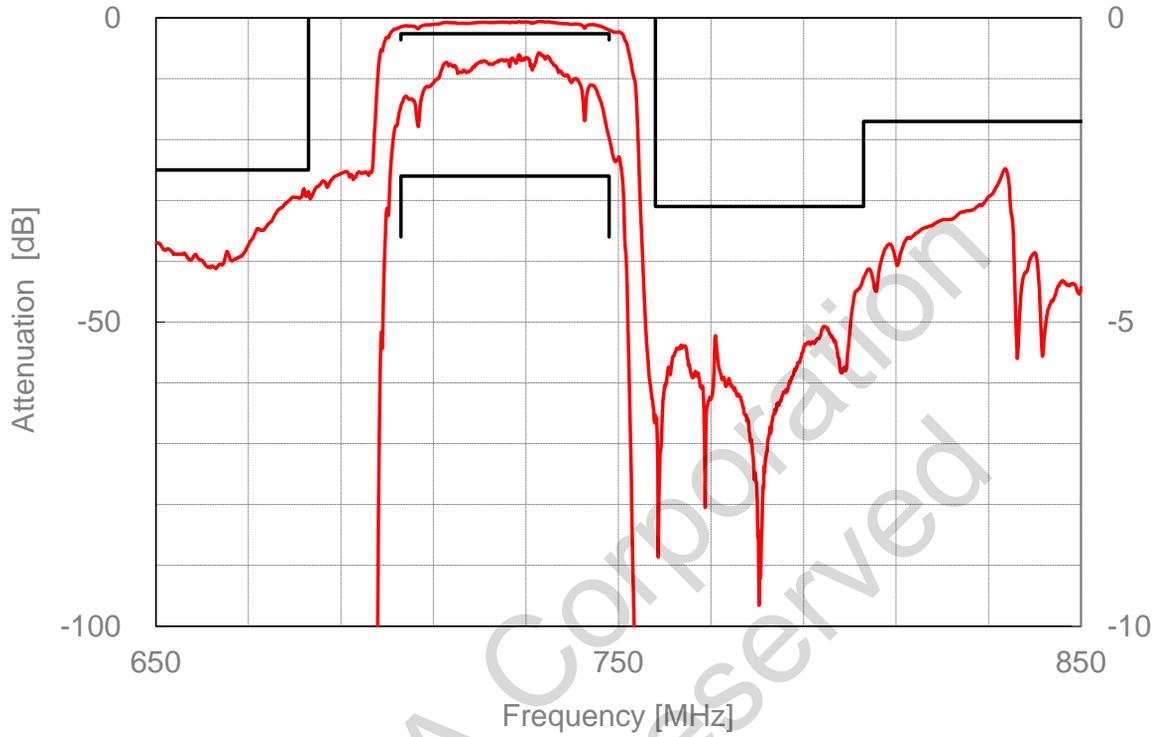
Electrical Characteristics

[Tx to Ant]



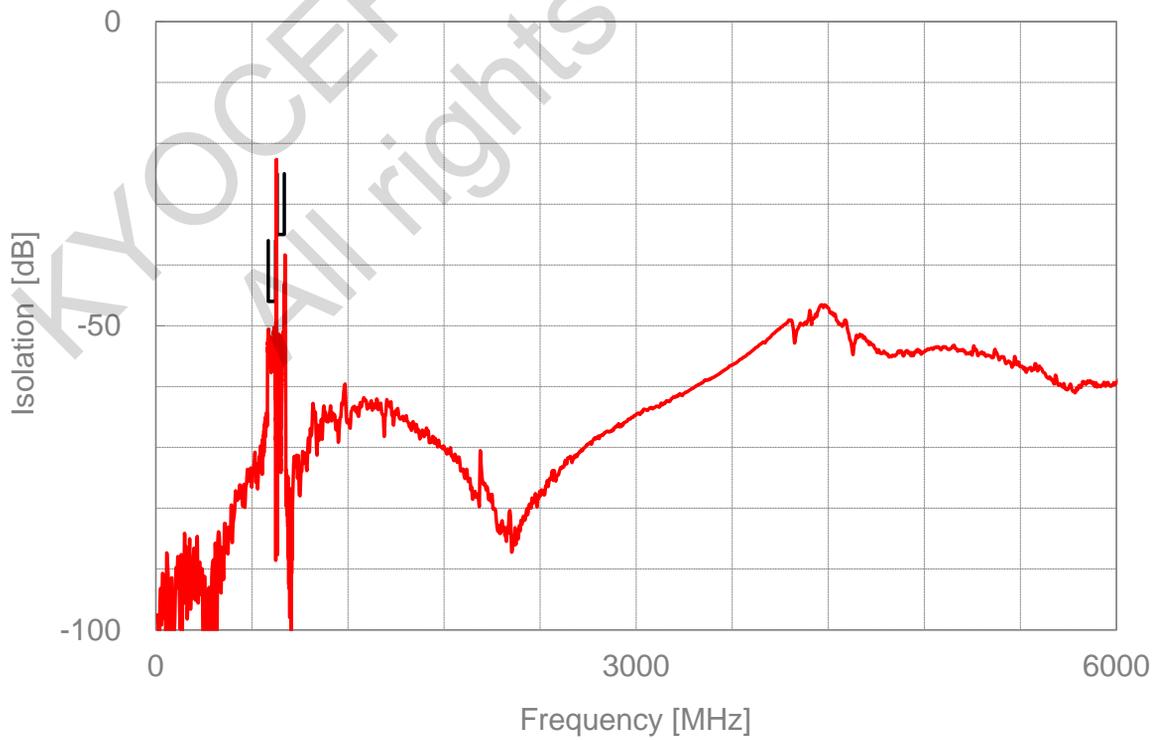
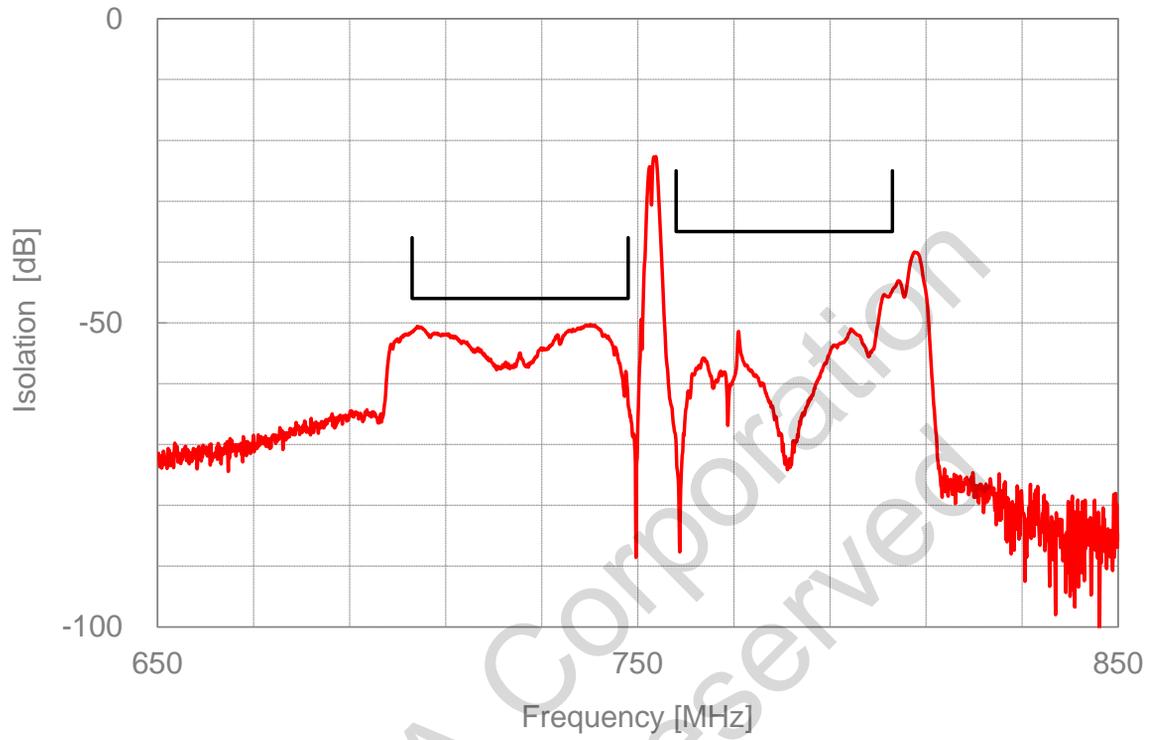
Electrical Characteristics

[Ant to Rx]

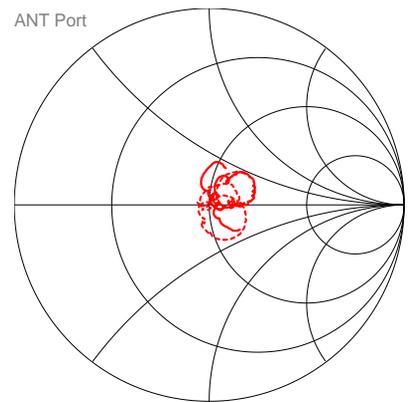
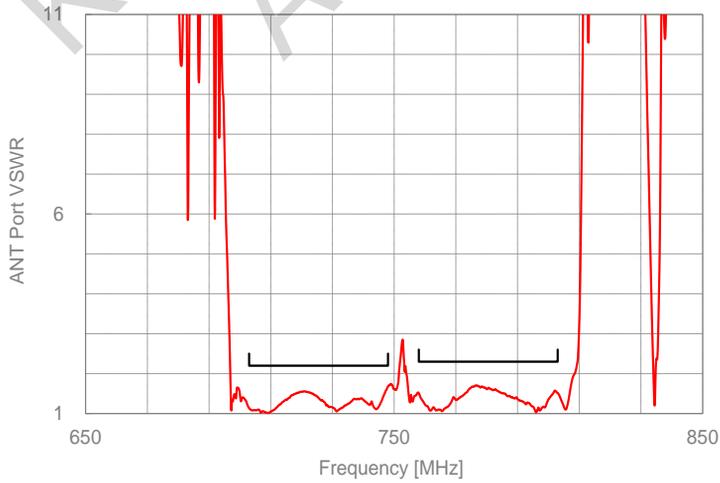
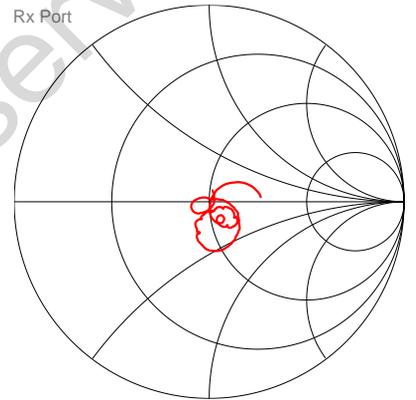
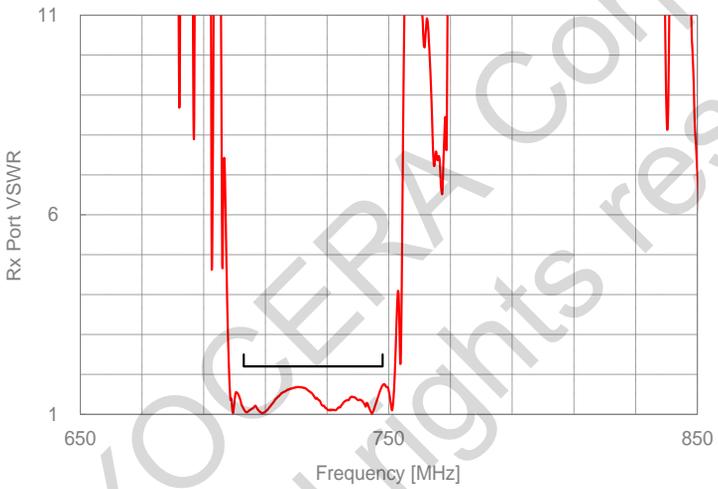
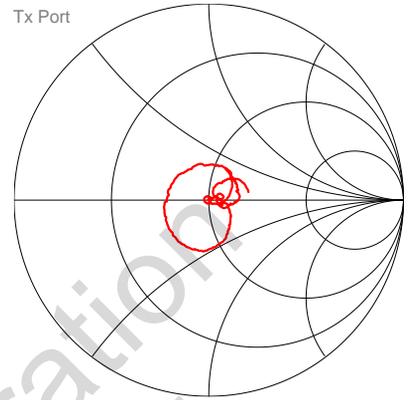
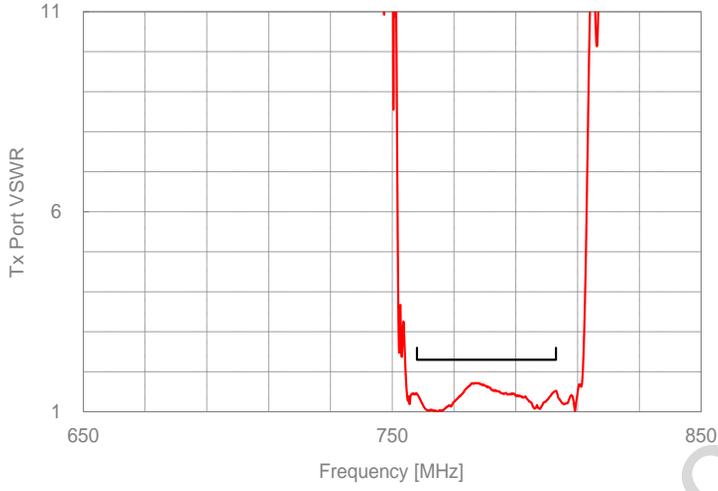


Electrical Characteristics

[Tx to Rx]

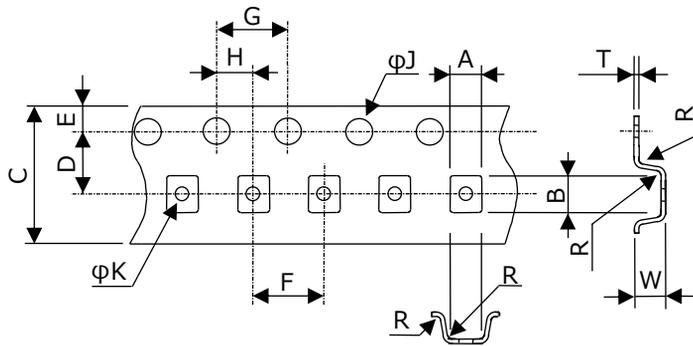


Electrical Characteristics



Tape & Reel Specification

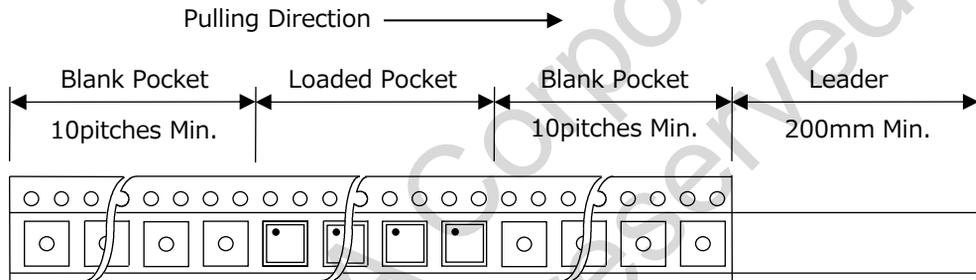
[Tape]



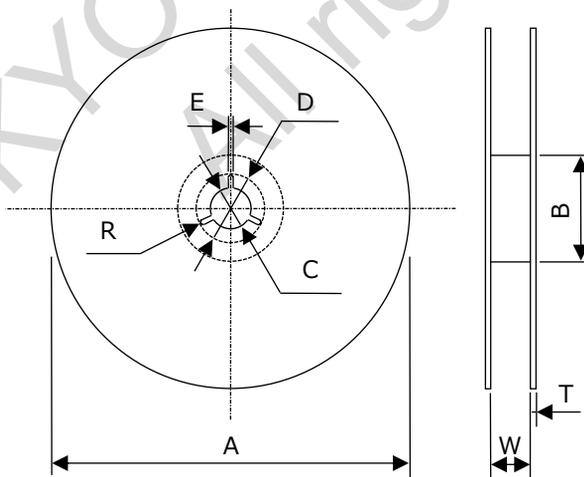
Unit : mm

| Part | Dimension |
|------|-----------|
| A | 2.3±0.1 |
| B | 2.8±0.1 |
| C | 8.0±0.1 |
| 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 |
| φK | 1.0±0.1 |
| R | 0.3 Max |
| W | 0.9±0.1 |
| 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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