

SAW Filter 915 MHz SMD 3.0×3.0mm

MODEL NO.: TA2211A

REV. 3.0

A. MAXIMUM RATING:

1. Input Power Level: 16 dBm
2. DC Voltage : 3.6 V
3. Operating Temperature: -30 °C to +70 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitivity Level: Level 1

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 50 \Omega$

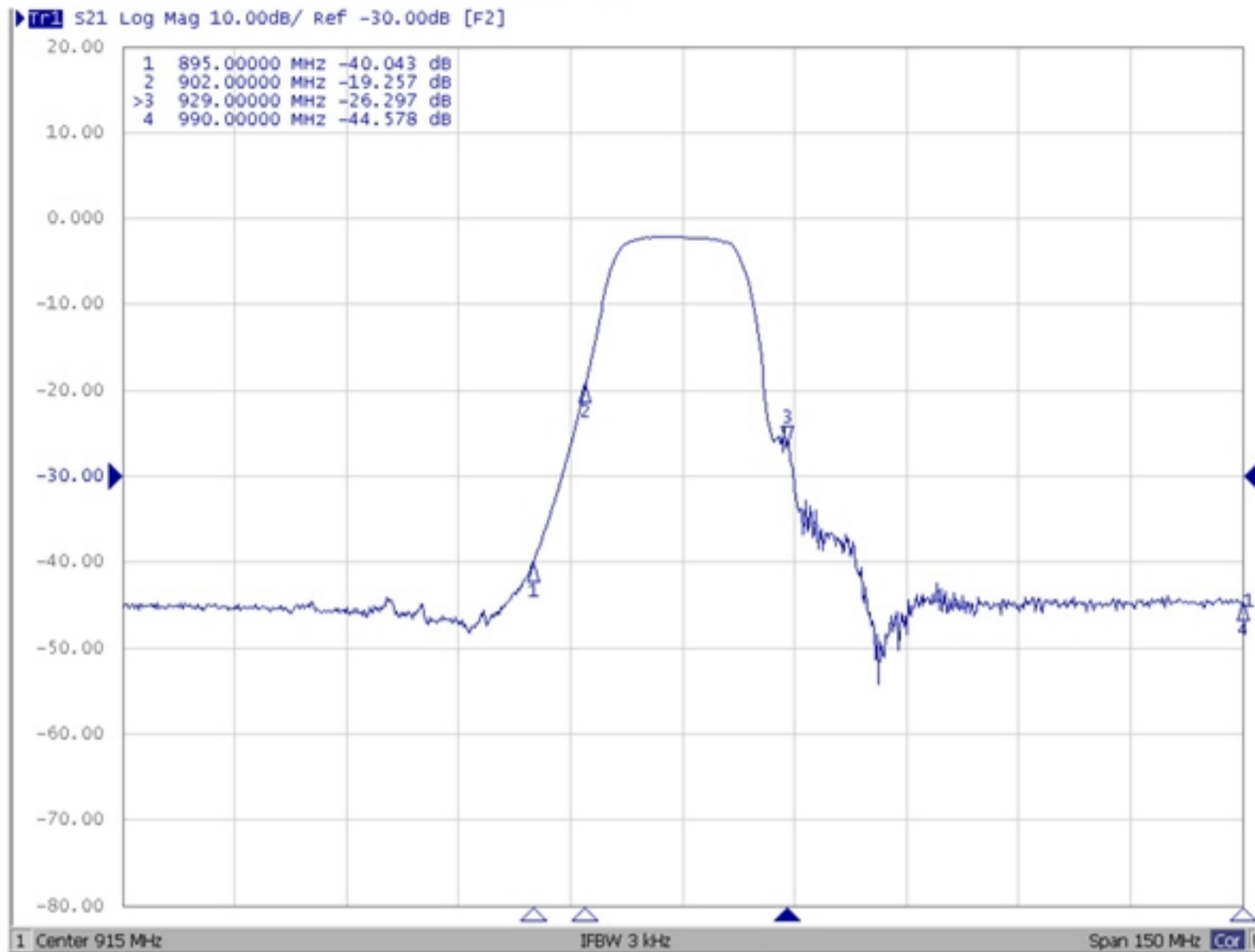
| Item | Unit | Min. | Typ. | Max. |
|--|-------|------|------|------|
| Center Frequency | MHz | - | 915 | - |
| Insertion Loss (910 ~920 MHz) | dB | - | 2.6 | 3.5 |
| Amplitude ripple (910 ~920 MHz) | dB | - | 0.6 | 1.6 |
| VSWR (910 ~920 MHz) | - | - | 1.4 | 2.0 |
| Attenuation | | | | |
| 10 ~ 895 MHz | dB | 35 | 39 | - |
| 895 ~ 902 MHz | dB | 10 | 19 | - |
| 929 ~ 1000 MHz | dB | 25 | 28 | - |
| 1000 ~ 1500 MHz | dB | 40 | 42 | - |
| 1500 ~ 2600 MHz | dB | 30 | 40 | - |
| Temperature Coefficient | ppm/K | - | -36 | - |

Notes:

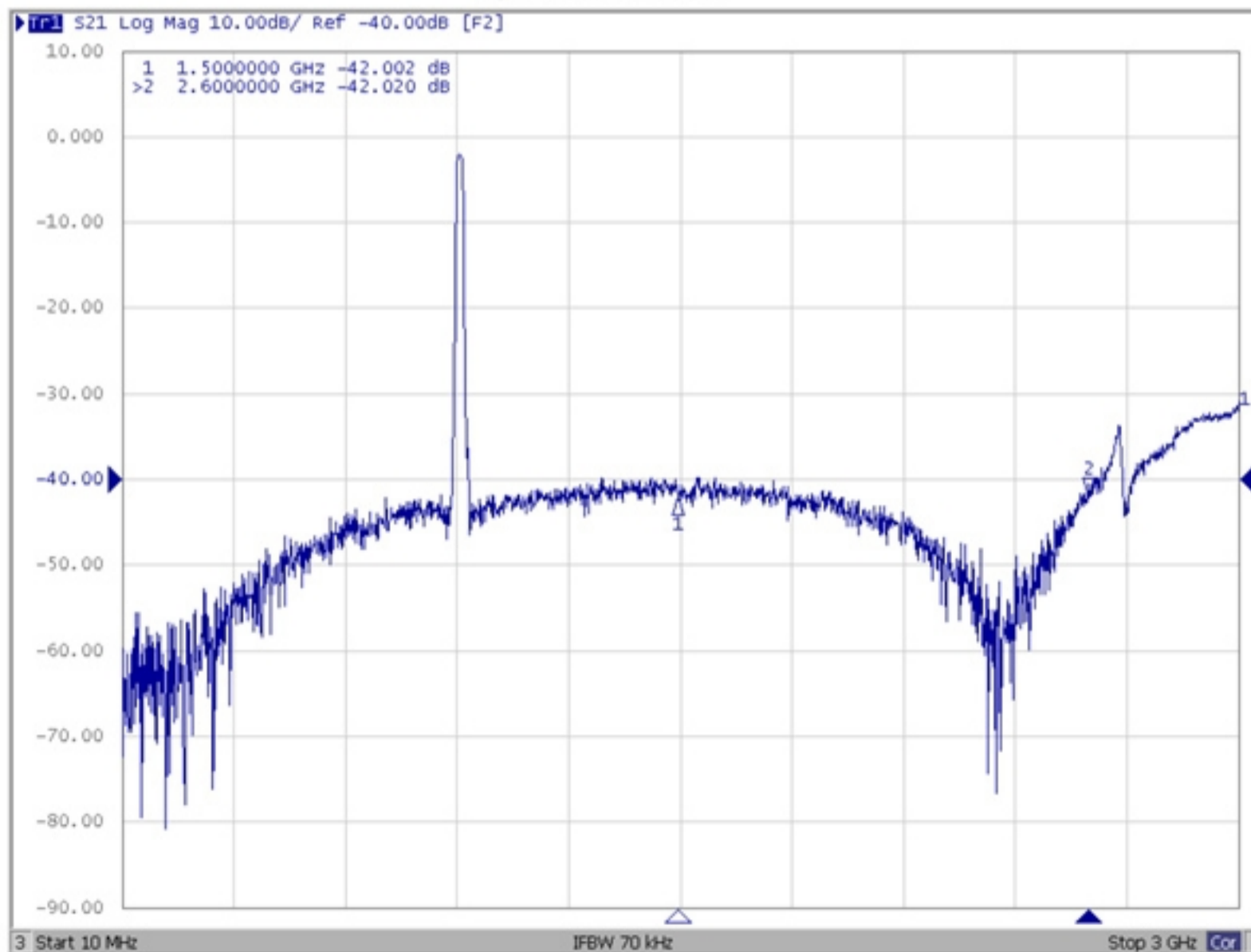
- (1). In production, devices will be tested at room temperature to a guard banded specification to ensure electrical compliance over temperature.
- (2). Typical values are based on average measurements at room temperature.

C. Frequency Characteristics :

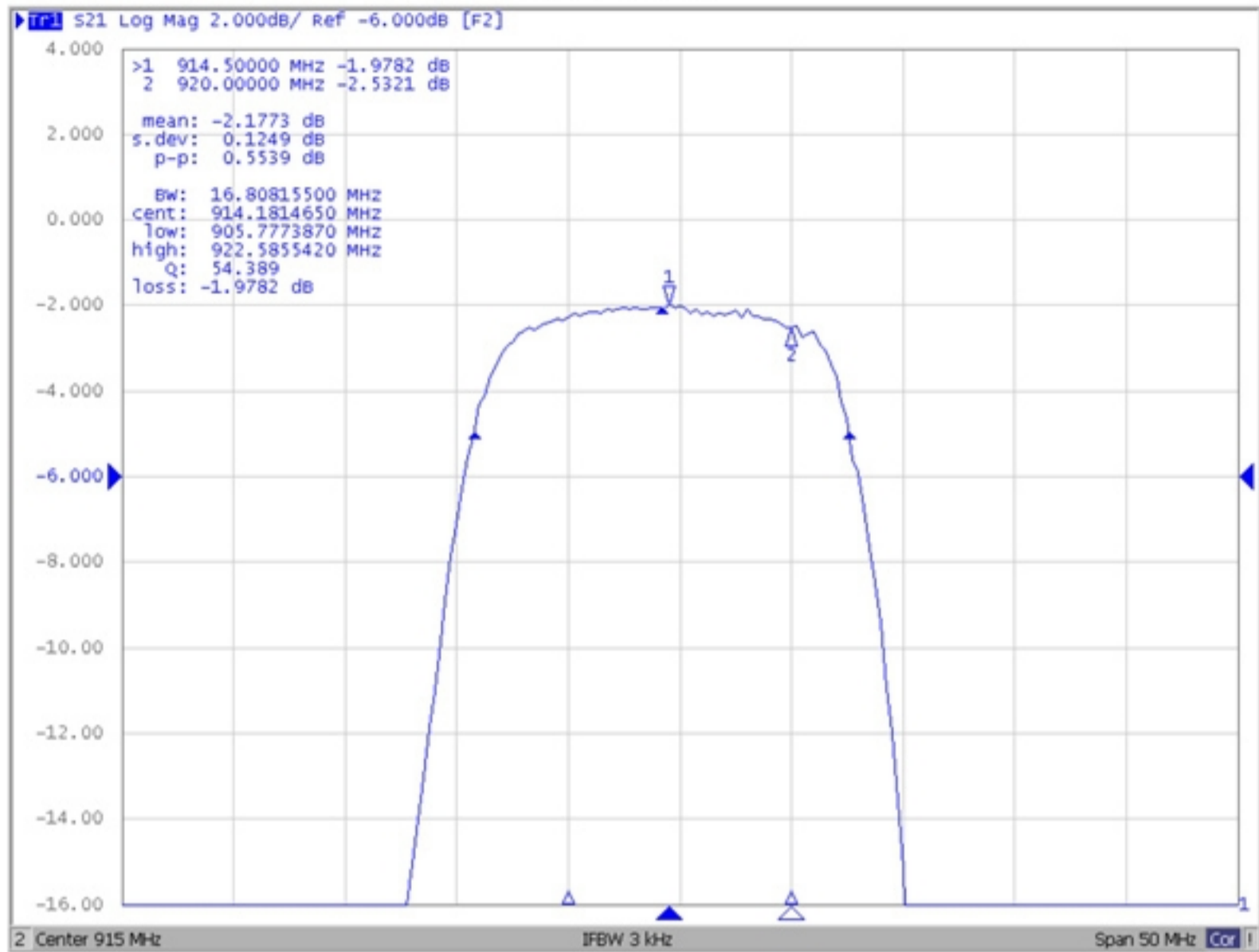
Span 150 MHz



Span 3000 MHz

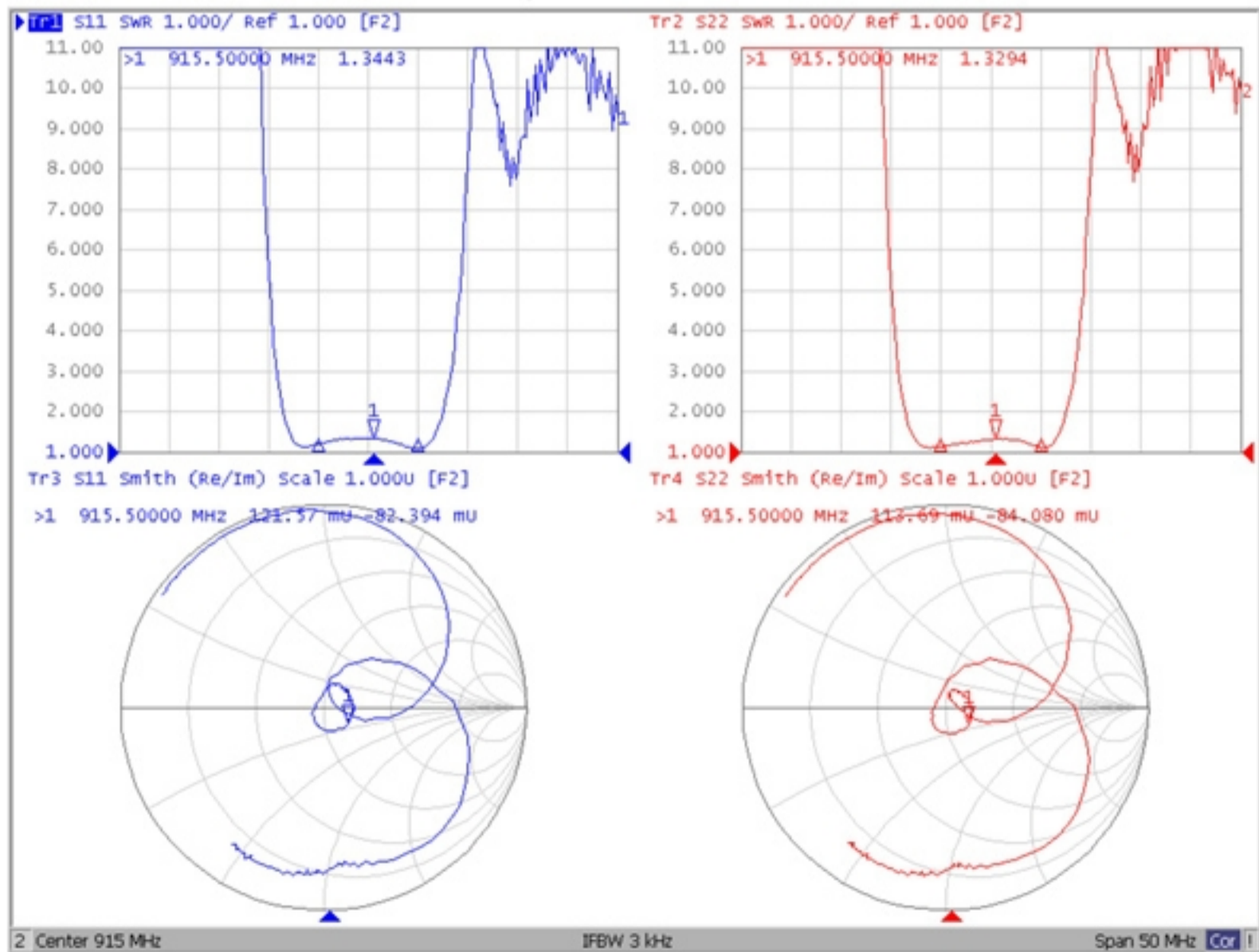


Span 50 MHz

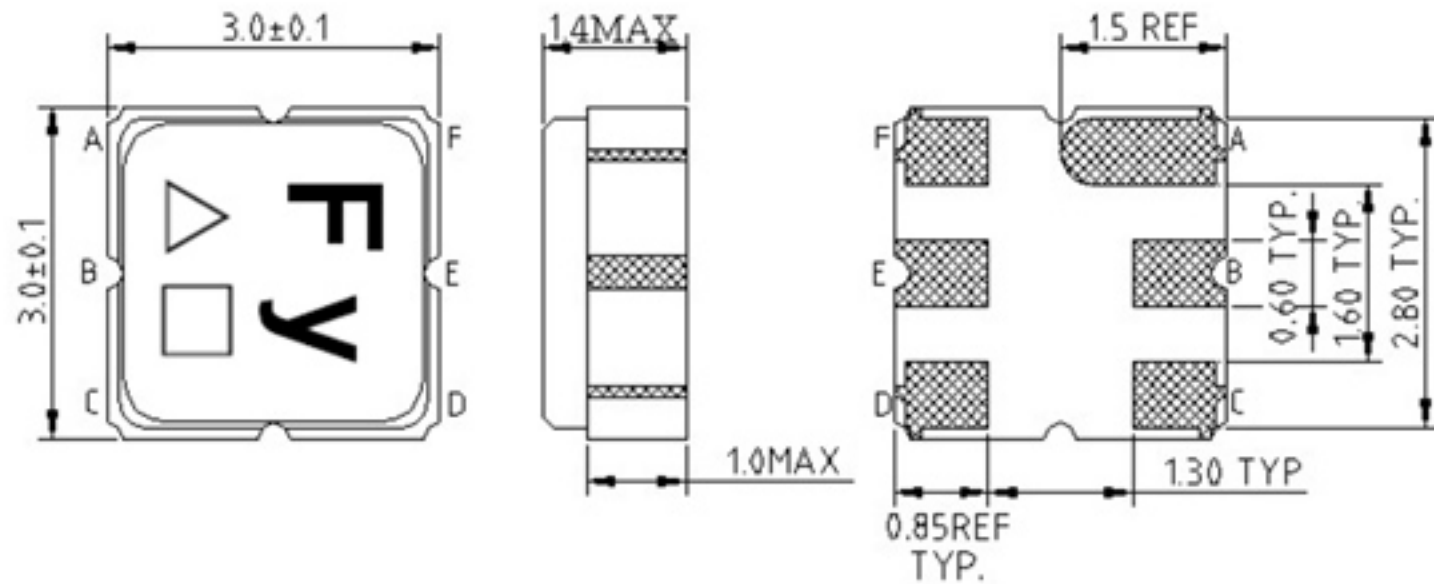


Reflection Respond (VSWR, Smith Chart)

Span 50 MHz



D. MEASUREMENT CIRCUIT:



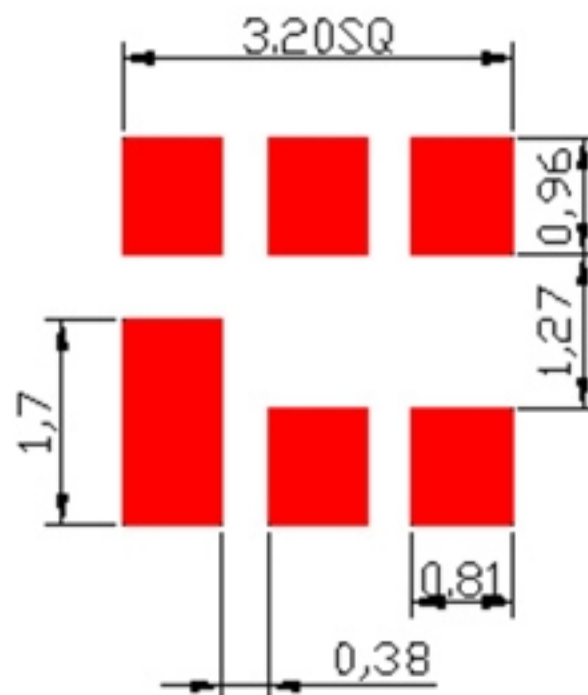
#B: Input
 #E: Output
 #A,C,D,F: Ground
 Unit: mm

△ : Year Code (2009->9, 2010->0, ..., 2018->8)

□ : Date Code (Follow the table from planner each year)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| WK01 | WK02 | WK03 | WK04 | WK05 | WK06 | WK07 | WK08 | WK09 | WK10 | WK11 | WK12 | WK13 |
| A | B | C | D | E | F | G | H | I | J | K | L | M |
| WK14 | WK15 | WK16 | WK17 | WK18 | WK19 | WK20 | WK21 | WK22 | WK23 | WK24 | WK25 | WK26 |
| N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| WK27 | WK28 | WK29 | WK30 | WK31 | WK32 | WK33 | WK34 | WK35 | WK36 | WK37 | WK38 | WK39 |
| a | b | c | d | e | f | g | h | i | j | k | l | m |
| WK40 | WK41 | WK42 | WK43 | WK44 | WK45 | WK46 | WK47 | WK48 | WK49 | WK50 | WK51 | WK52 |
| n | o | p | q | r | s | t | u | v | w | x | y | z |

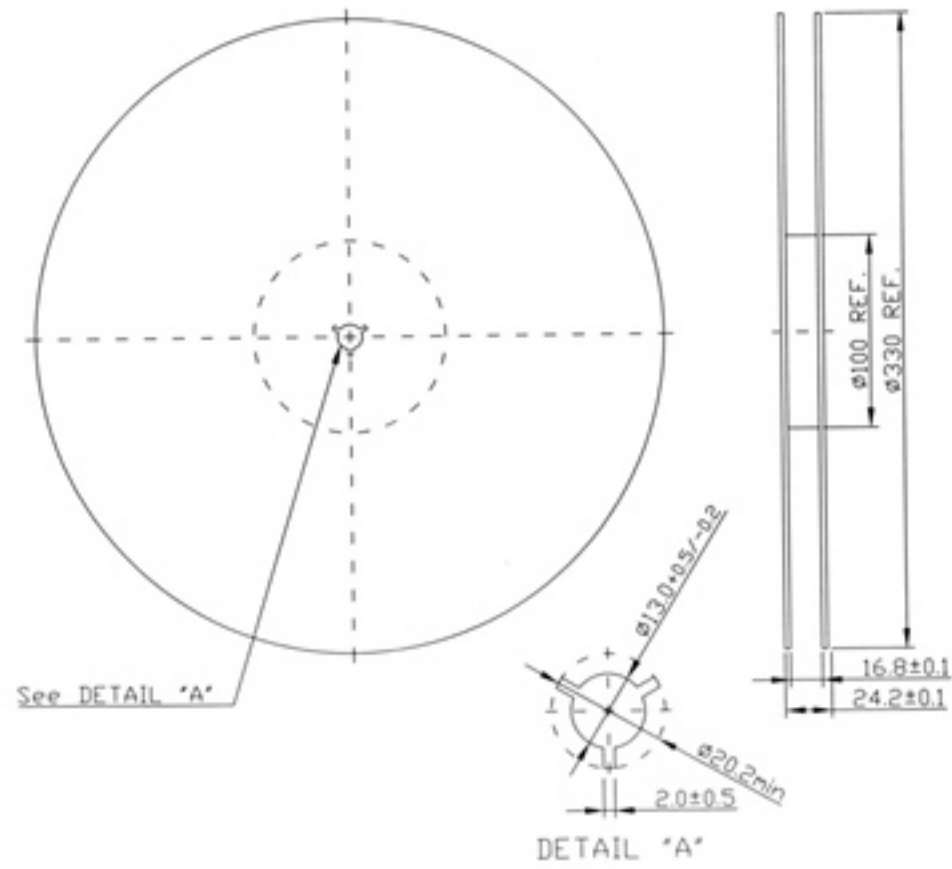
F. PCB FootPrint



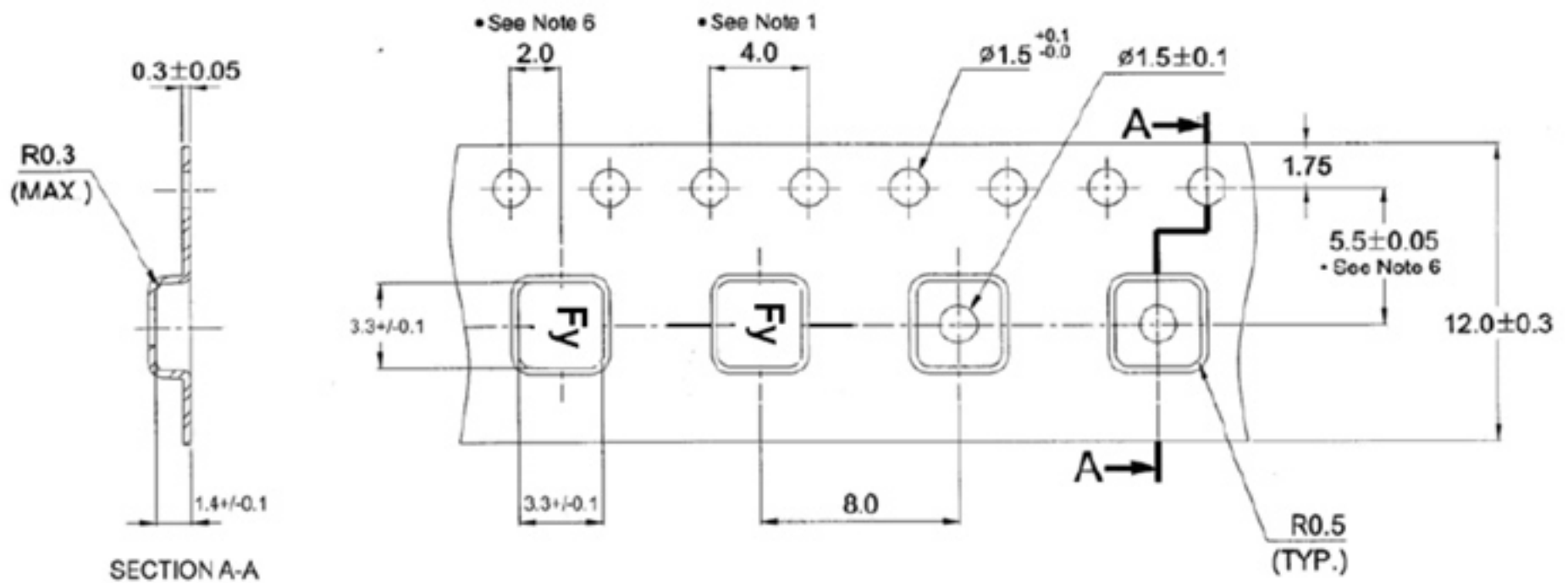
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at $150\sim 180^{\circ}\text{C}$ 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 $260^{\circ}\text{C} +0/-5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

