

SAW Filter 1582.4MHz (BW 46.61MHz) SMD 3.0x3.0 mm

MODEL NO.:TA1658D

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40 °C to +105 °C
4. Storage Temperature: -40 °C to +105 °C
5. Moisture Sensitivity Level: Level 1(MSL1)



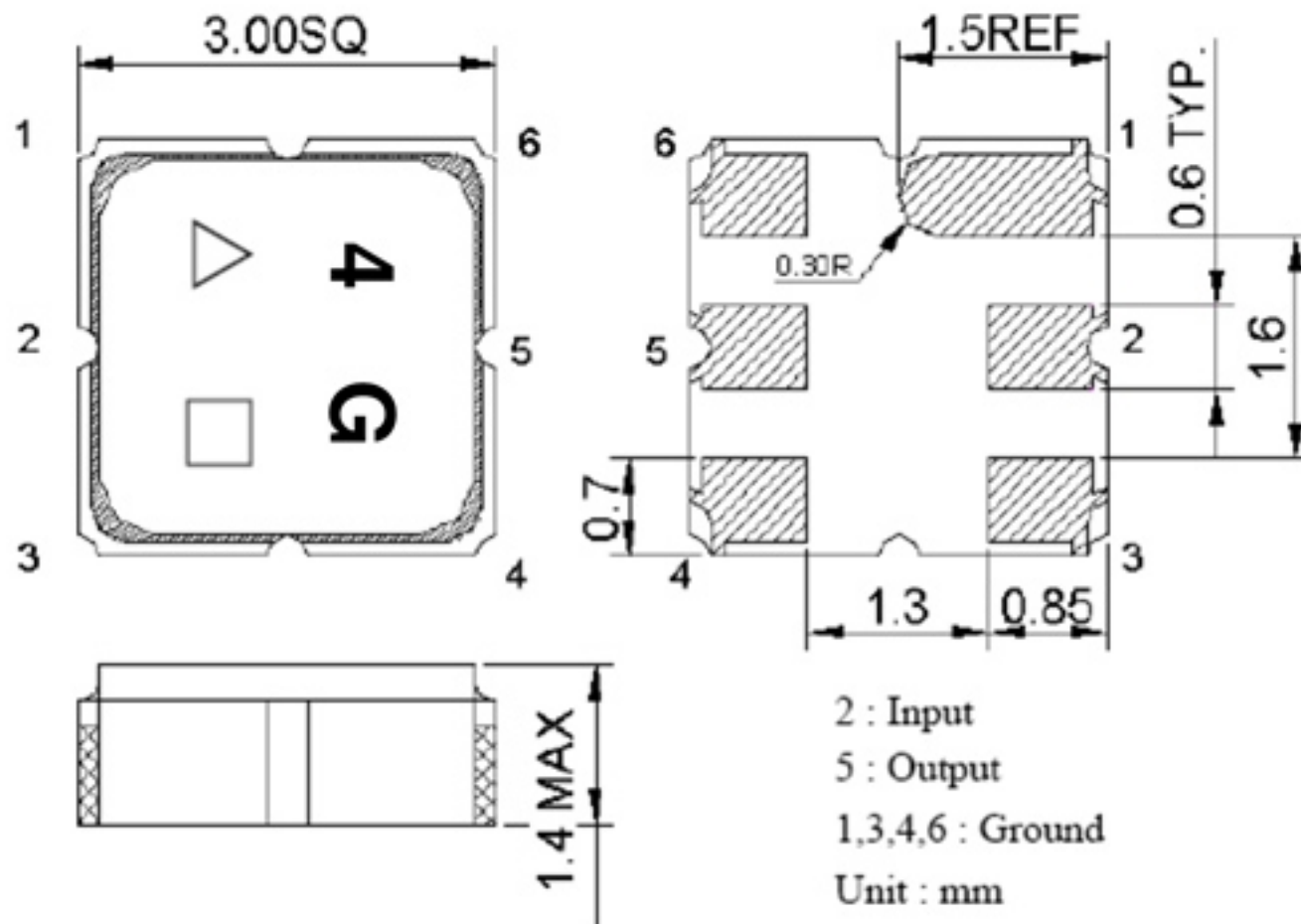
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	-40 °C to +105 °C
Center Frequency Fc	MHz	-	1582.4	-
Insertion Loss IL				
1)1574.42 ~ 1576.42 MHz			1.2	2.0
2)1559.05 ~ 1563.15 MHz	dB		1.7	2.2
3)1573.37 ~ 1577.47 MHz			1.3	2.0
4)1597.78 ~ 1605.66 MHz			1.5	4.0
GD Ripple (1597.55~1605.89 MHz)	dB	-	12	25
VSWR		-	-	-
1)1574.42 ~ 1576.42 MHz		-	1.6	2.0
2)1559.05 ~ 1563.15 MHz	-		1.3	2.0
3)1573.37 ~ 1577.47 MHz			1.7	2.0
4)1597.78 ~ 1605.66 MHz			1.4	2.0
Attenuation				
10 ~ 824 MHz	dB	30	38	-
824 ~ 925 MHz	dB	30	37	-
1427 ~ 1453 MHz	dB	40	47	-
1625 MHz	dB	25	42	-
1710 ~ 1785 MHz	dB	37	45	-
1850 ~ 1910 MHz	dB	38	47	-
1920 ~ 1980 MHz	dB	39	49	-
2400 ~ 2500 MHz	dB	35	45	-

2500 ~ 2570	MHz	dB	37	45	-
2600 ~ 3000	MHz	dB	20	41	-

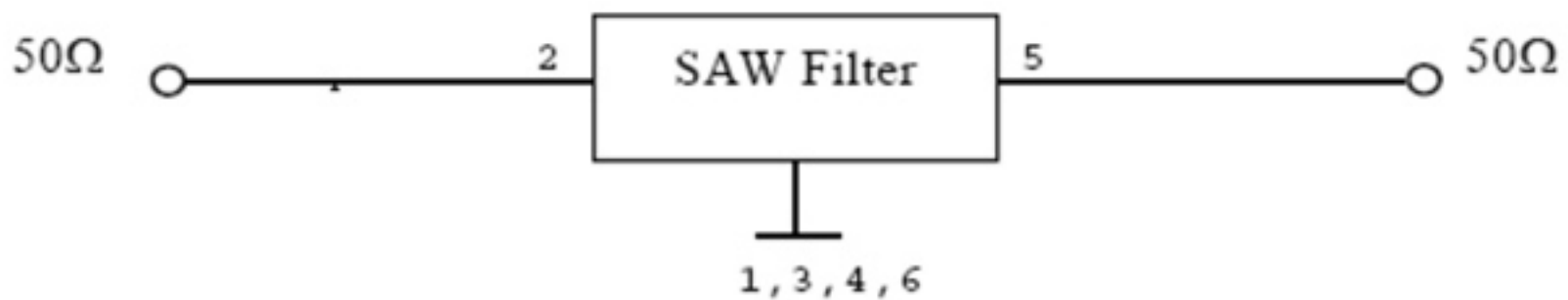
C.OUTLINE DRAWING:



△ : Year Code (2009->9, 2010->0, ..., 2018->8)
□ : Date Code (Follow the table from planner each year)

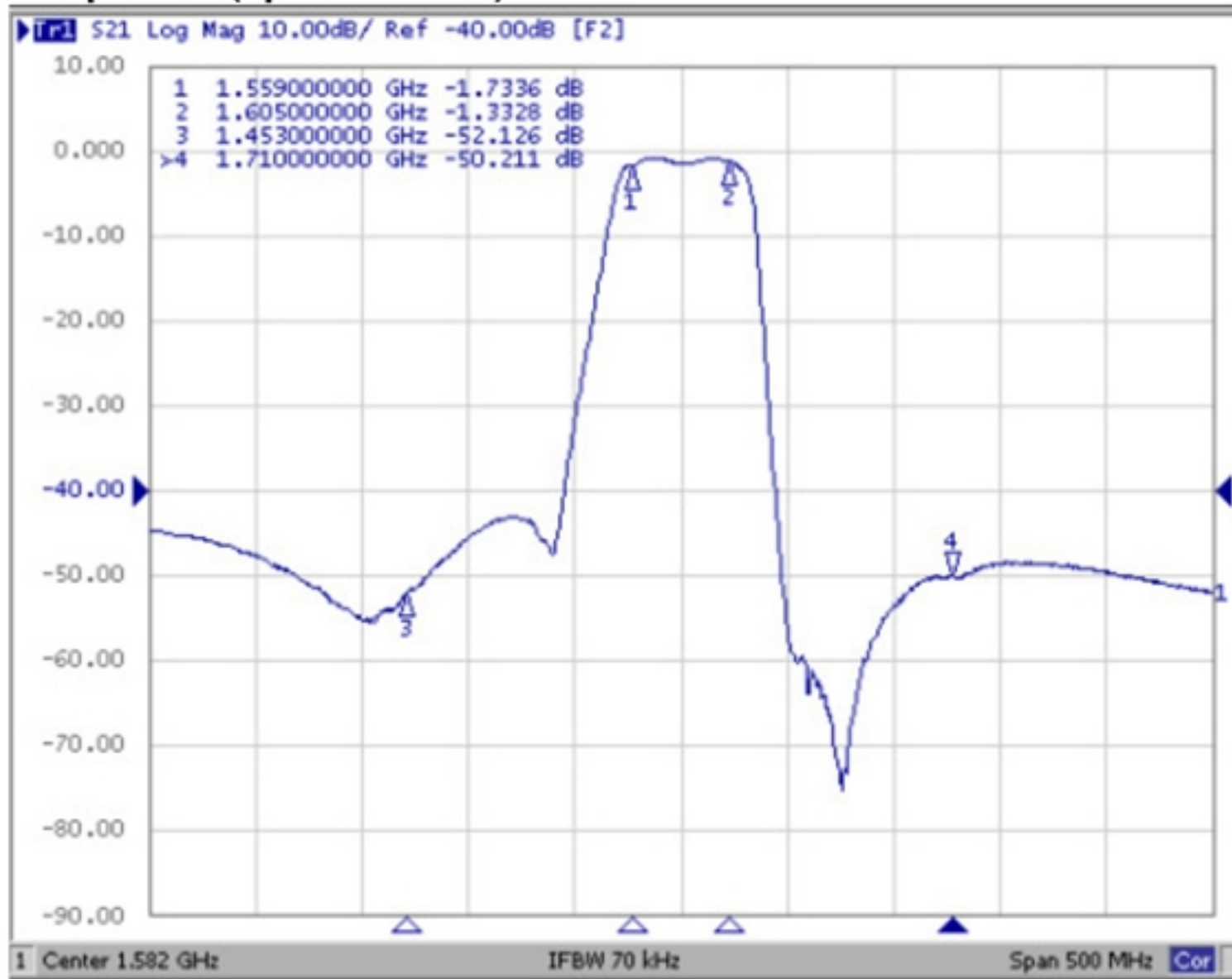
D. MEASUREMENT CIRCUIT:

HP Network analyzer

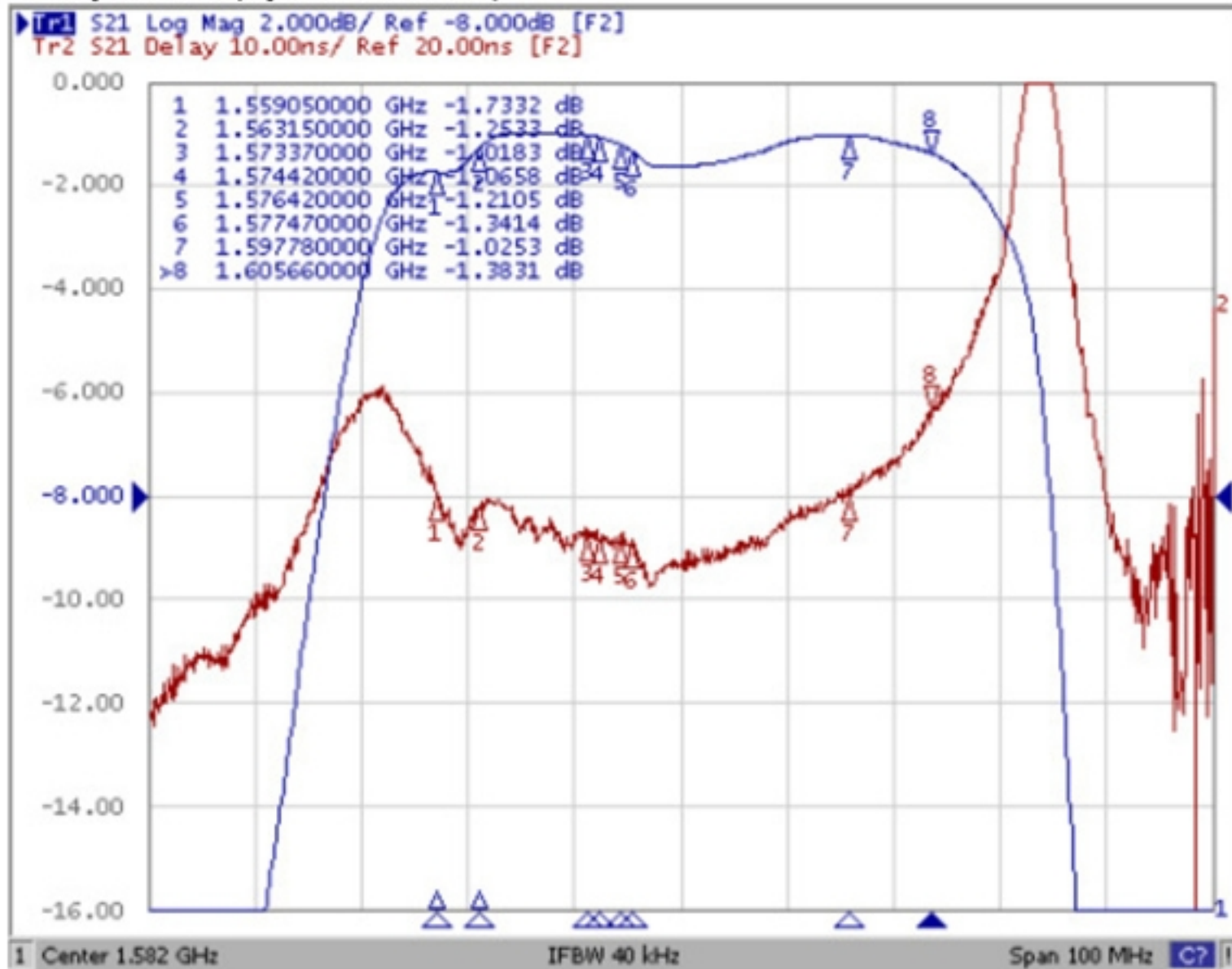


E. Frequency Characteristics:

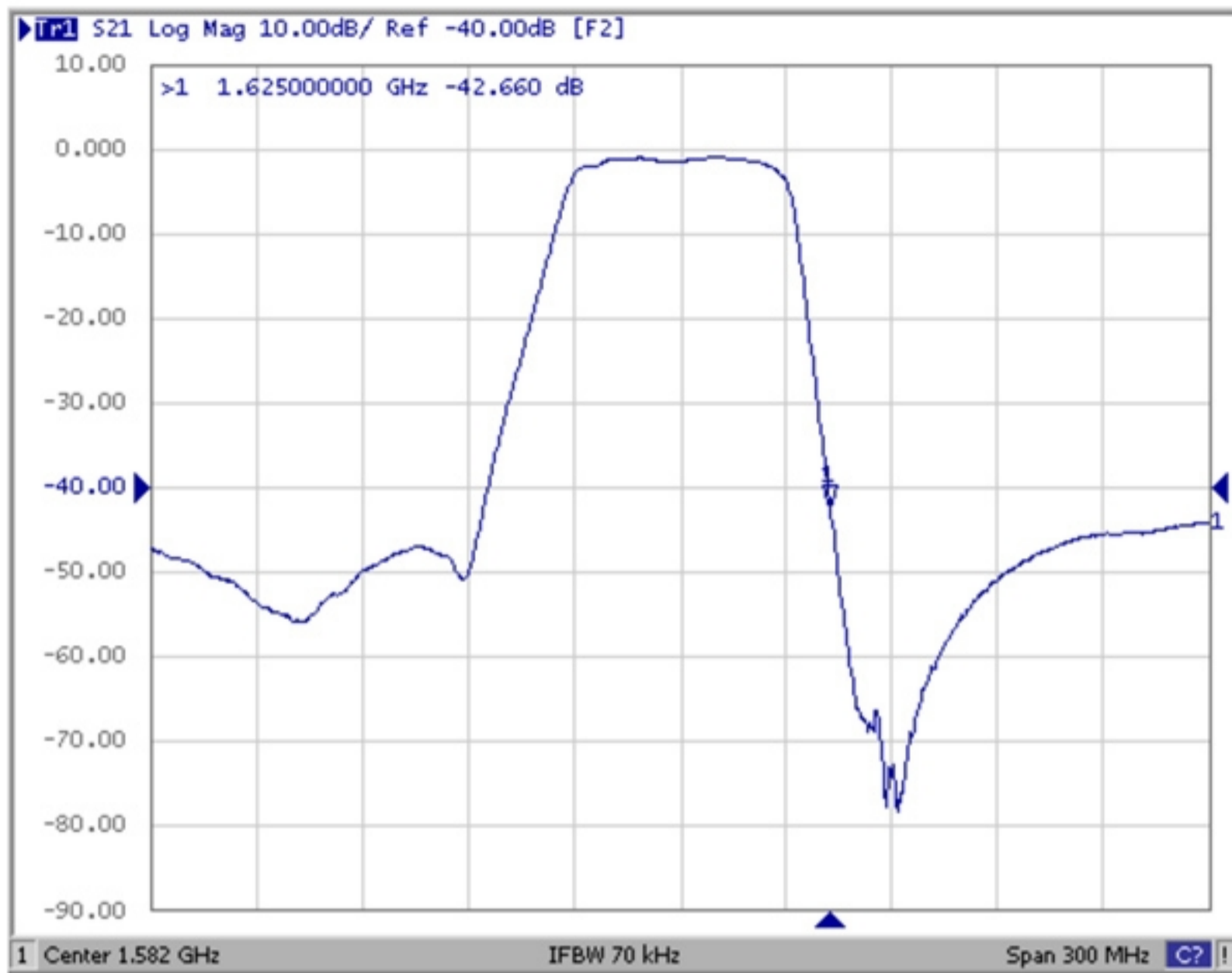
S21 response: (span 500MHz)



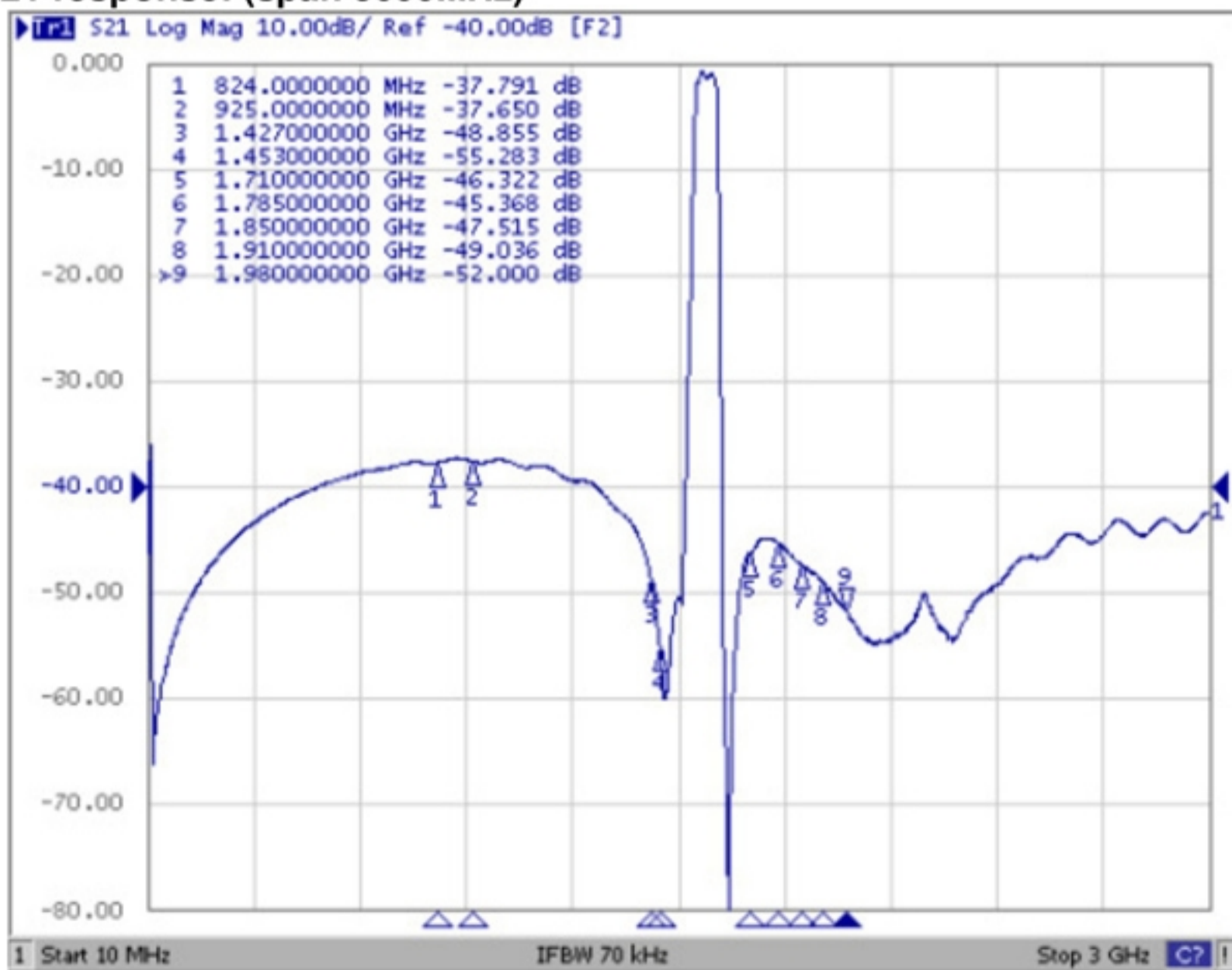
S21 response: (span 100MHz)



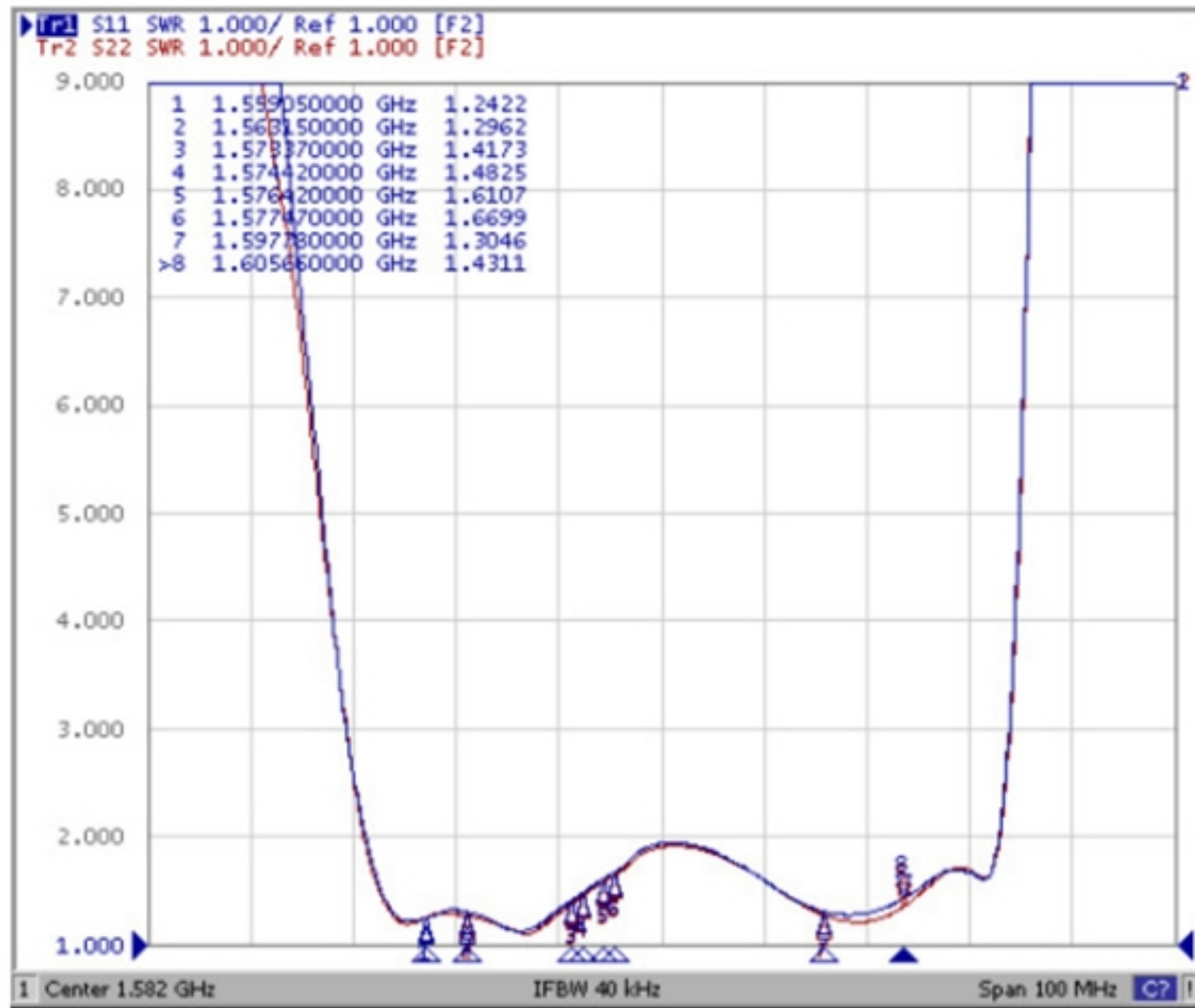
S21 response: (span 300MHz)



Sd21 response: (span 3000MHz)



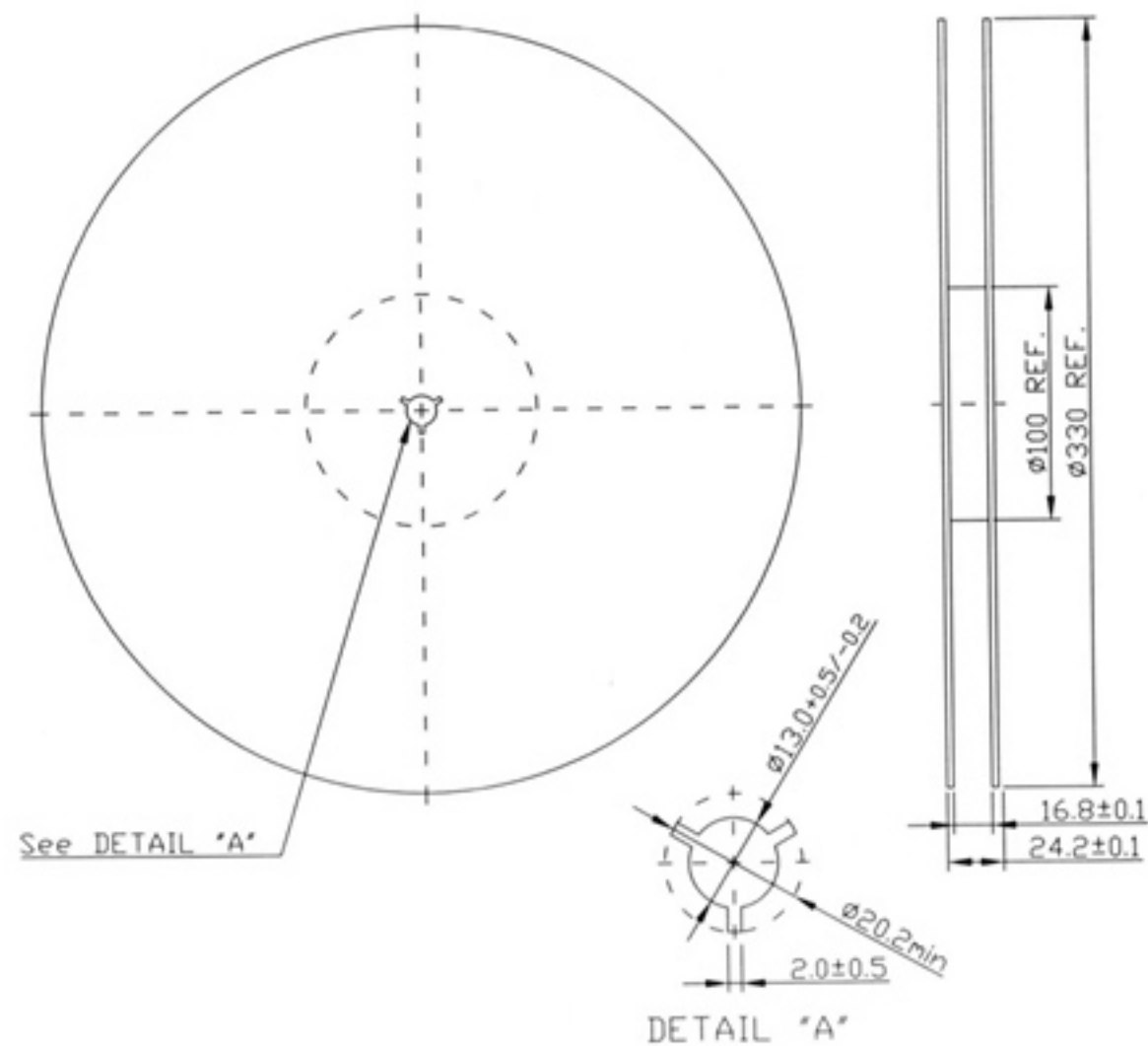
S11&S22 VSWR: (span 100MHz)



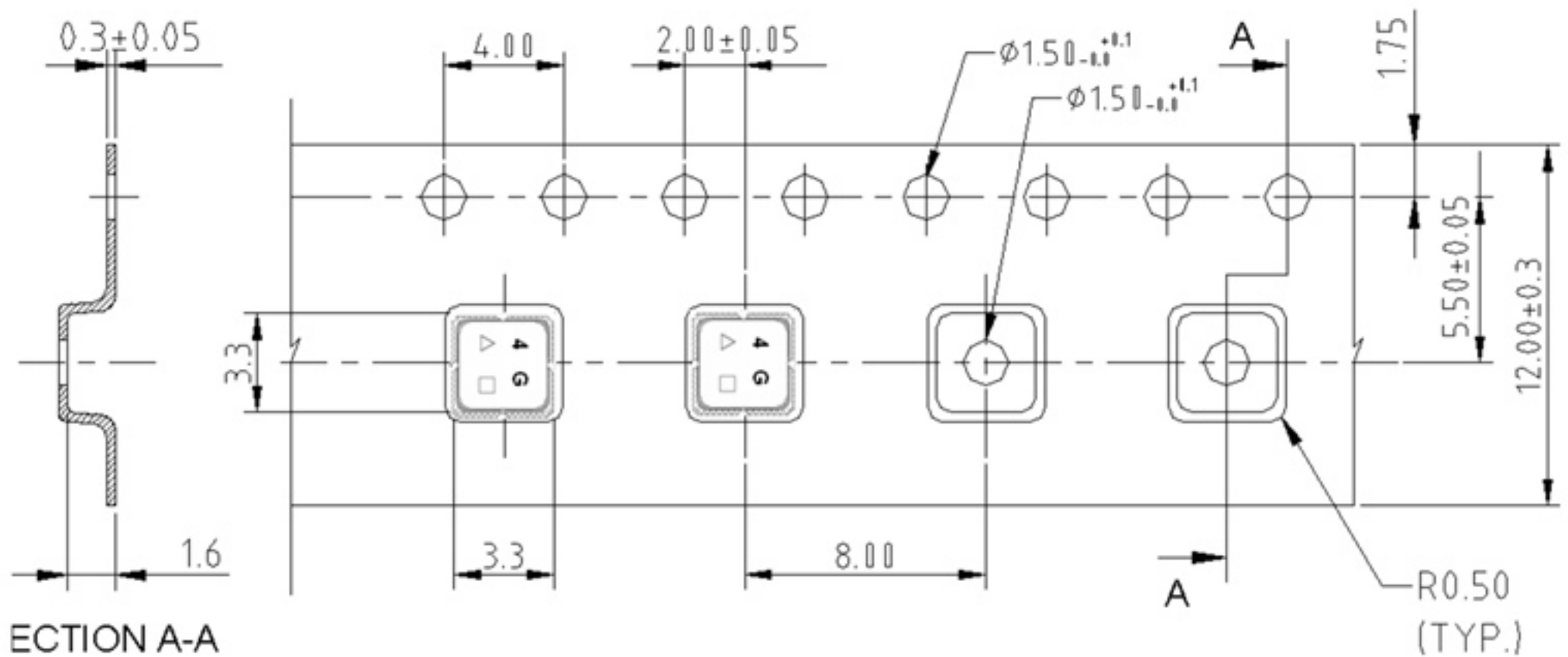
F. PACKING:

1. REEL DIMENSION

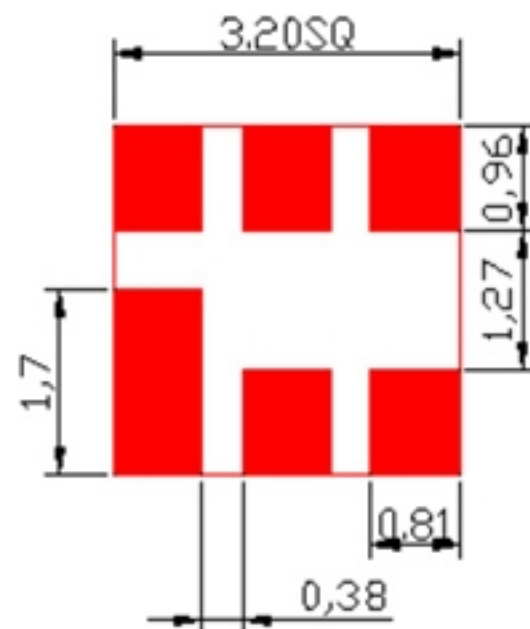
(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



G. PCB Footprint:



H. STORAGE CONDITIONS:

- 1) Store in manufacturer's package or tightly reclosed box with the following conditions.
[Temperature: $-10 \dots +40$ °C, Humidity: 30...85%RH] Examine solderability before using this component, since more than 6 months storage might be a cause of degradation of solderability. Notice that long-term storage might be a cause of the discoloration.
- 2) To keep solderability of outer-electrode, do not store in the following environments.
 - Ambient air containing corrosive gas (C12, H₂S, NH₃, SOX, NOX, etc.)
 - Ambient air containing volatile or combustible gas
 - In dusty place
 - In the places where the water splashes and it tends to condense for high humid
 - In direct sunlight
 - In the places under the strong influence of static electricity or electric field strengthContact the manufacturer before using the component in any of the above environments.
- 3) Do not open minimum packing unit until usage.

I. RECOMMENDED REFLOW PROFILE:

