SAW Dual SAW 370/390 MHz (BW 20 MHz) SMD 5.0X5.0 mm

MODEL NO.:TE0161A REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 12 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -30℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant

Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

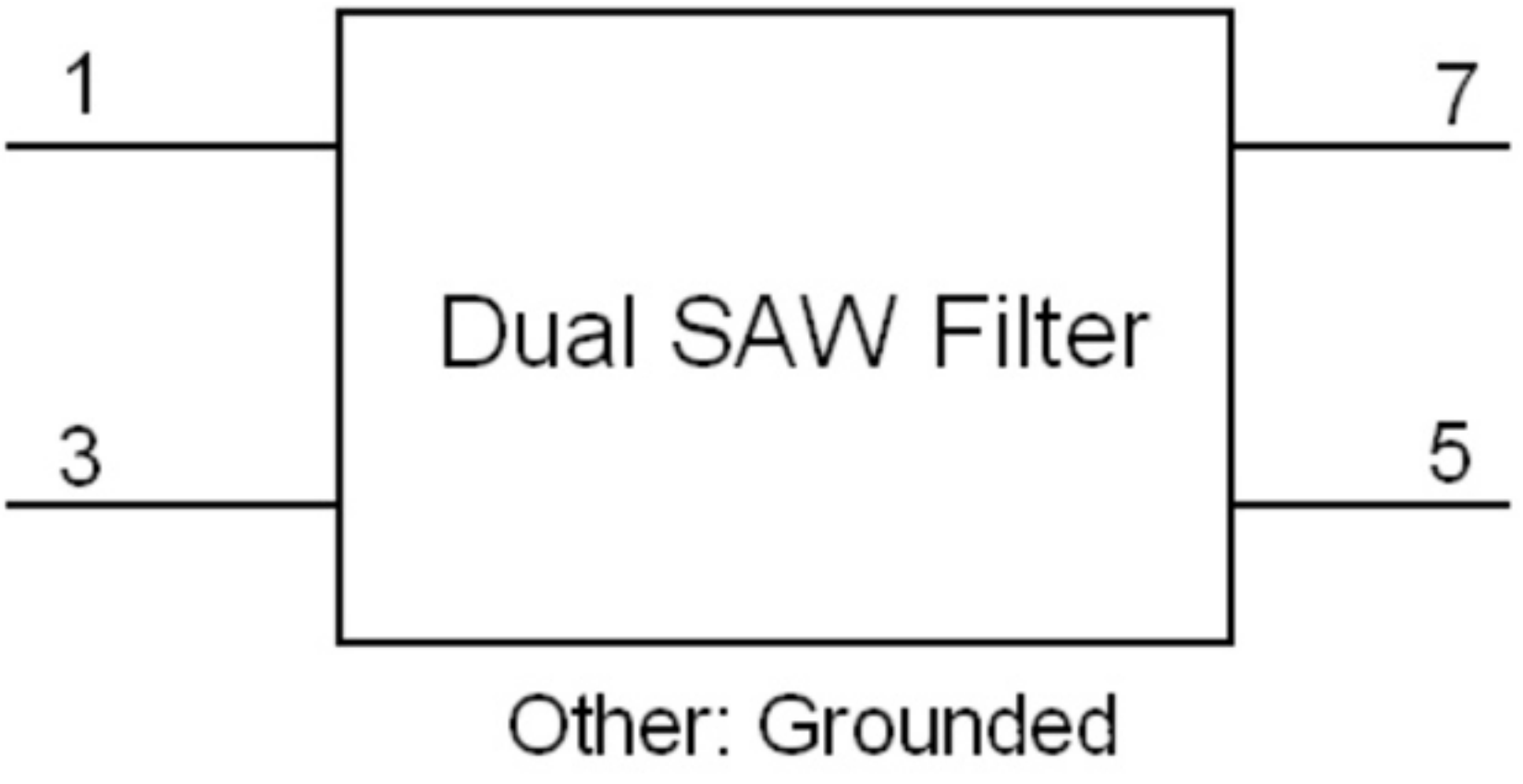
Terminating source impedance (single) : $Z_S = 50\ \Omega$

Terminating load impedance(single) : $Z_L = 50\ \Omega$

Item (Filter 1)	Unit	Min	Typ.	Max
Center frequency	MHz	-	370	-
Insertion Loss (360 – 380 MHz)	dB	-	2.4	3.0
Amplitude Ripple (360 – 380 MHz)	dB	-	1.0	2.0
Return Loss (360 – 380 MHz)	dB	8.0	11.0	-
Attenuation (Reference level from 0 dB)				
10 – 170 MHz	dB	35	55	-
170 – 315 MHz	dB	30	52	-
315 – 340 MHz	dB	20	45	-
400 – 420 MHz	dB	15	22	-
420 – 440 MHz	dB	25	44	-
440 –660 MHz	dB	30	44	-
660– 1000 MHz	dB	25	37	-
Temperature coefficient of Frequency	ppm/K		-36	

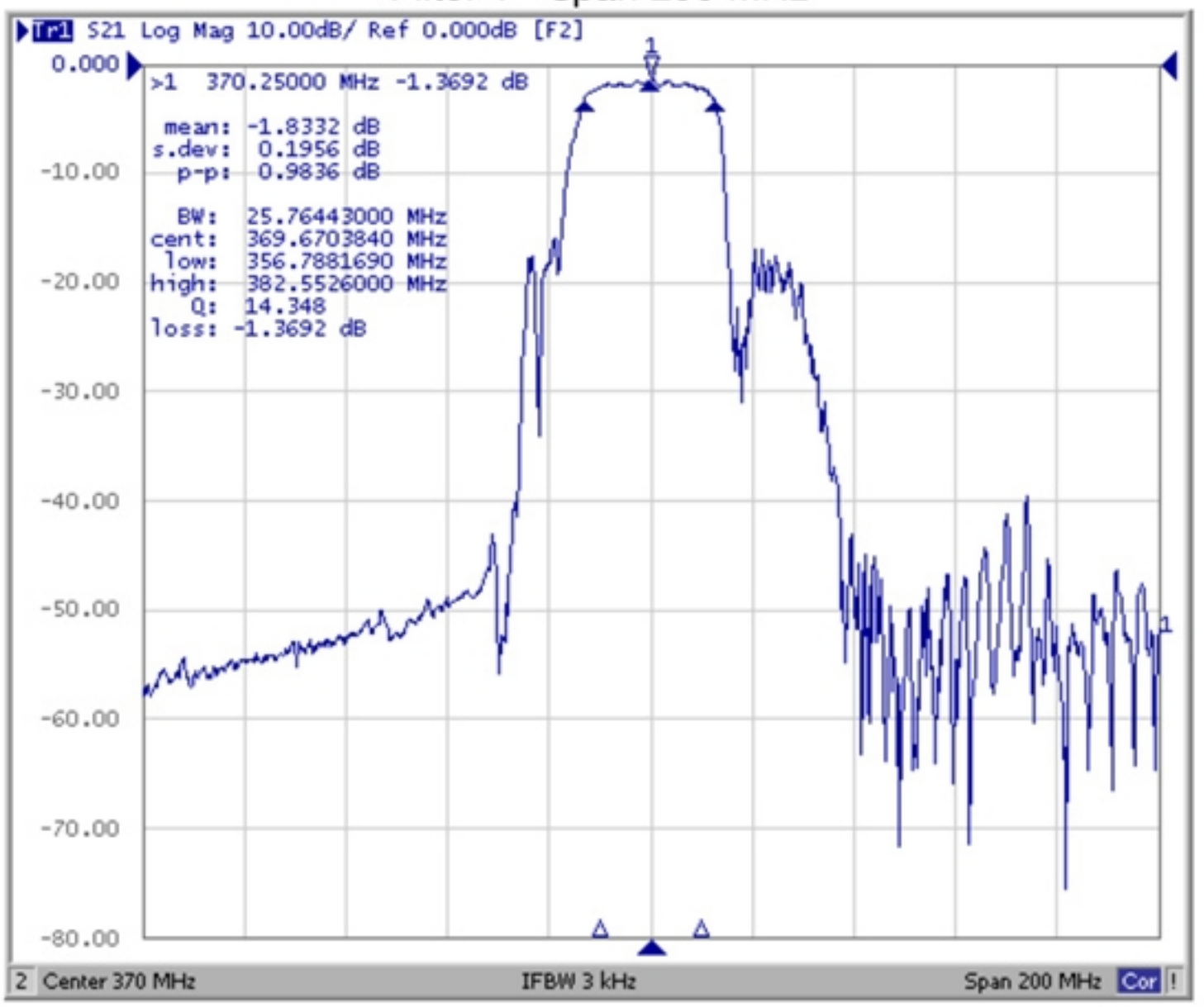
Item (Filter 2)	Unit	Min	Typ.	Max
Center frequency	MHz	-	390	-
Insertion Loss (380 – 400 MHz)	dB	-	2.4	3.0
Amplitude Ripple (380 – 400 MHz)	dB	-	1.0	2.0
Return Loss (380 – 400 MHz)	dB	8.0	11.0	-
Attenuation (Reference level from 0 dB)				
10 – 190 MHz	dB	35	55	-
190 – 335 MHz	dB	30	51	-
335 – 360 MHz	dB	25	45	-
420 – 440 MHz	dB	15	22	-
440 – 460 MHz	dB	25	55	-
460 –680 MHz	dB	30	62	-
680– 1000 MHz	dB	25	44	-
Temperature coefficient of Frequency	ppm/K		-36	

C. TEST CIRCUIT:

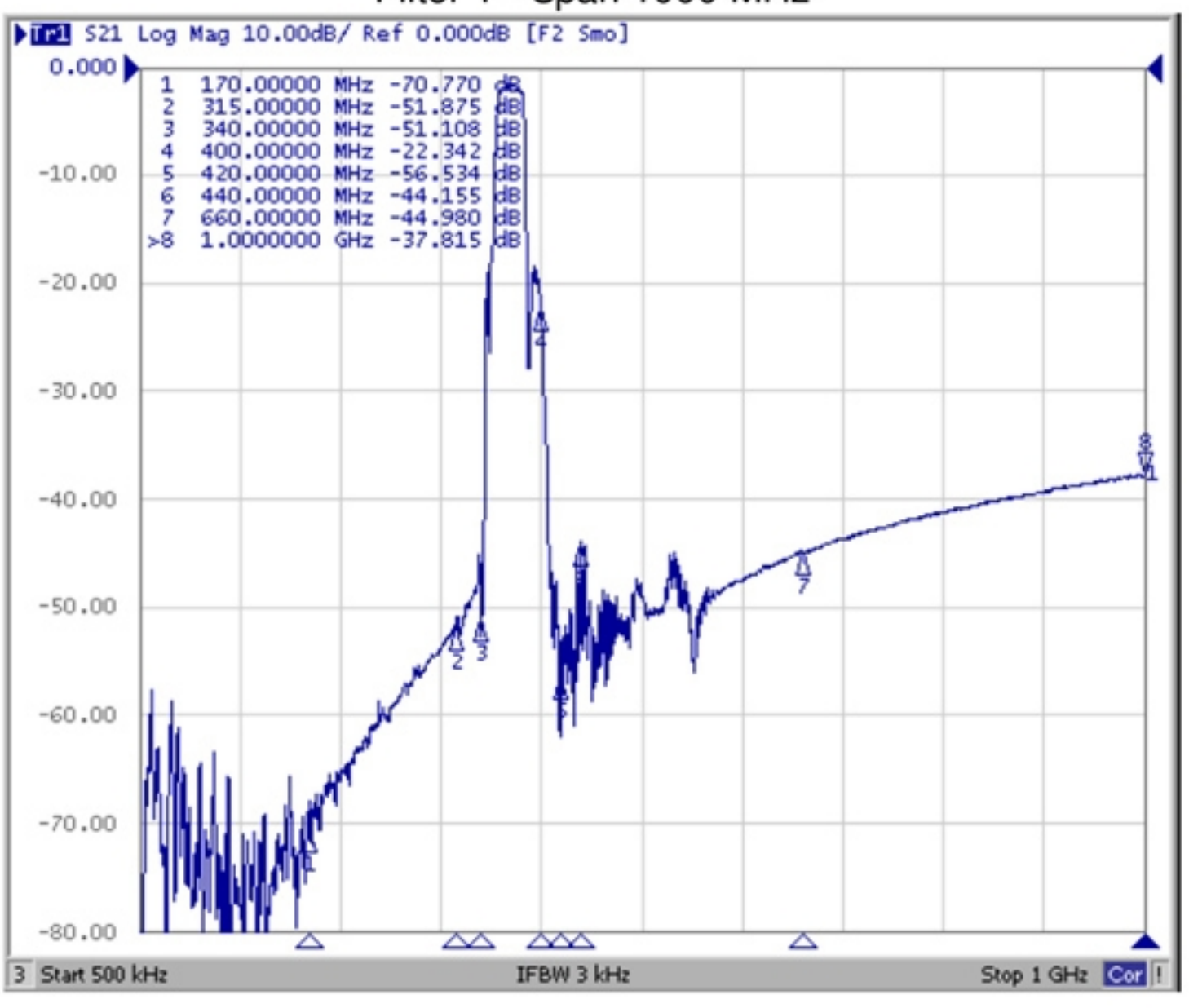


D. Frequency Characteristics:

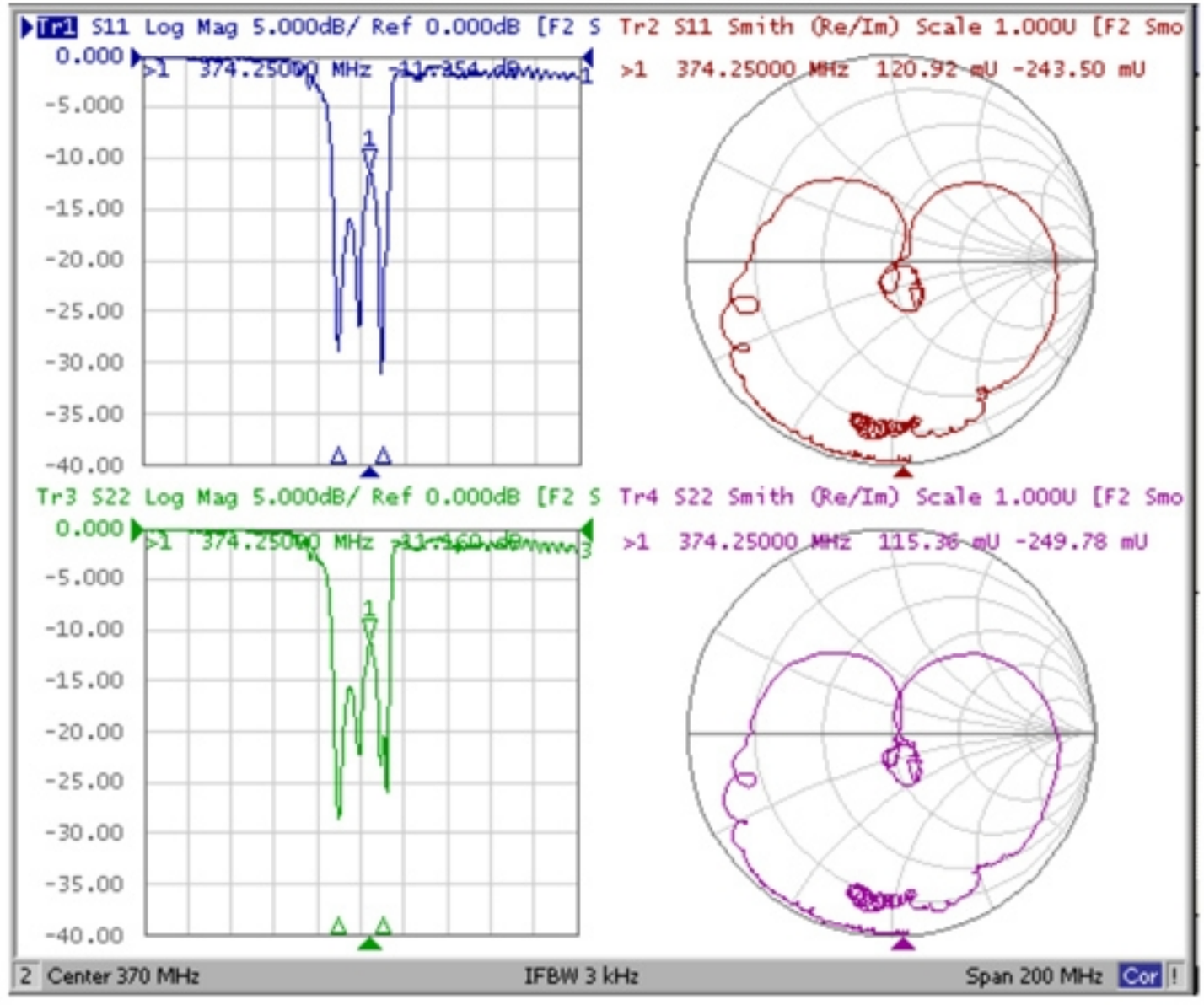
Filter 1 - Span 200 MHz



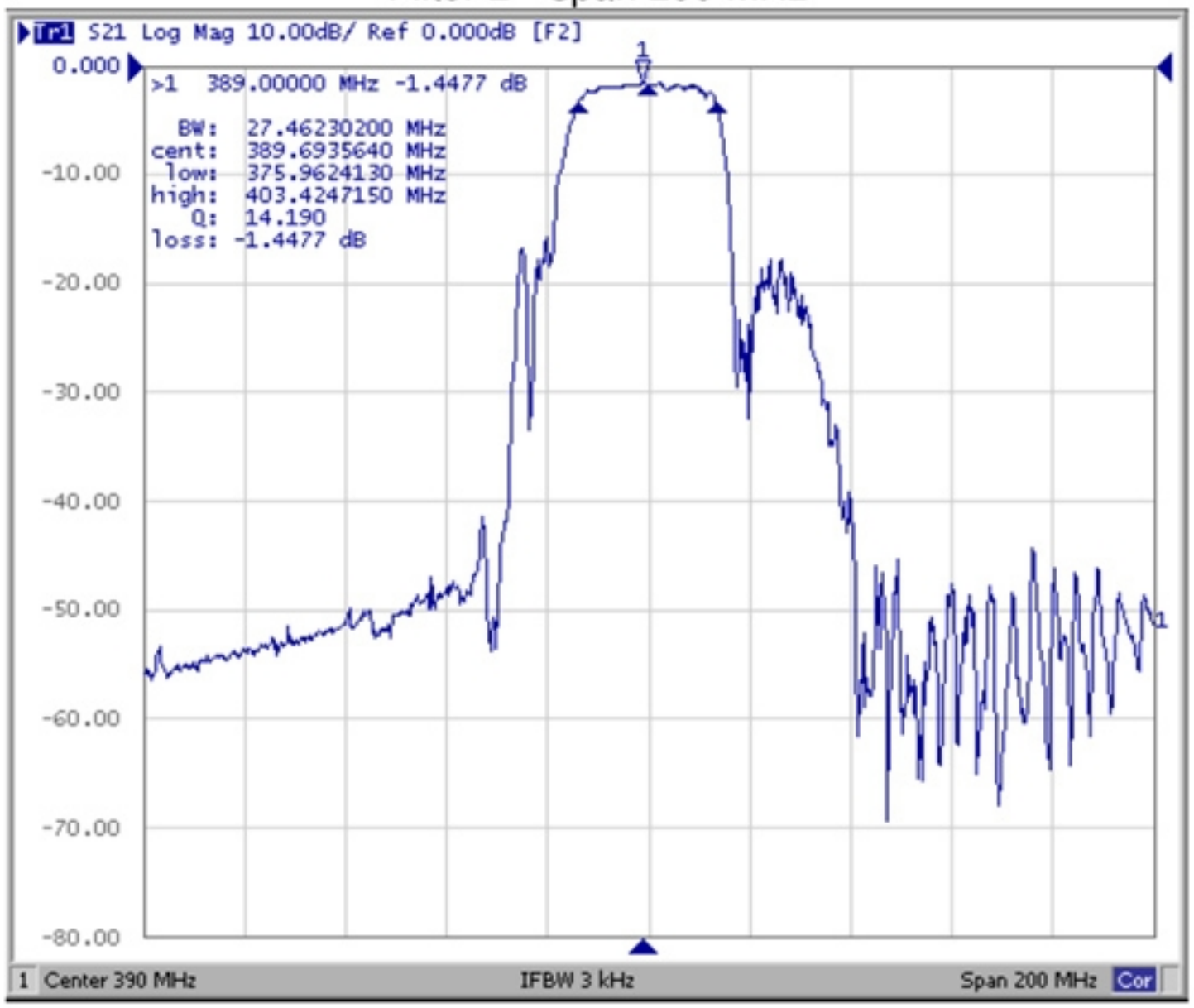
Filter 1 - Span 1000 MHz



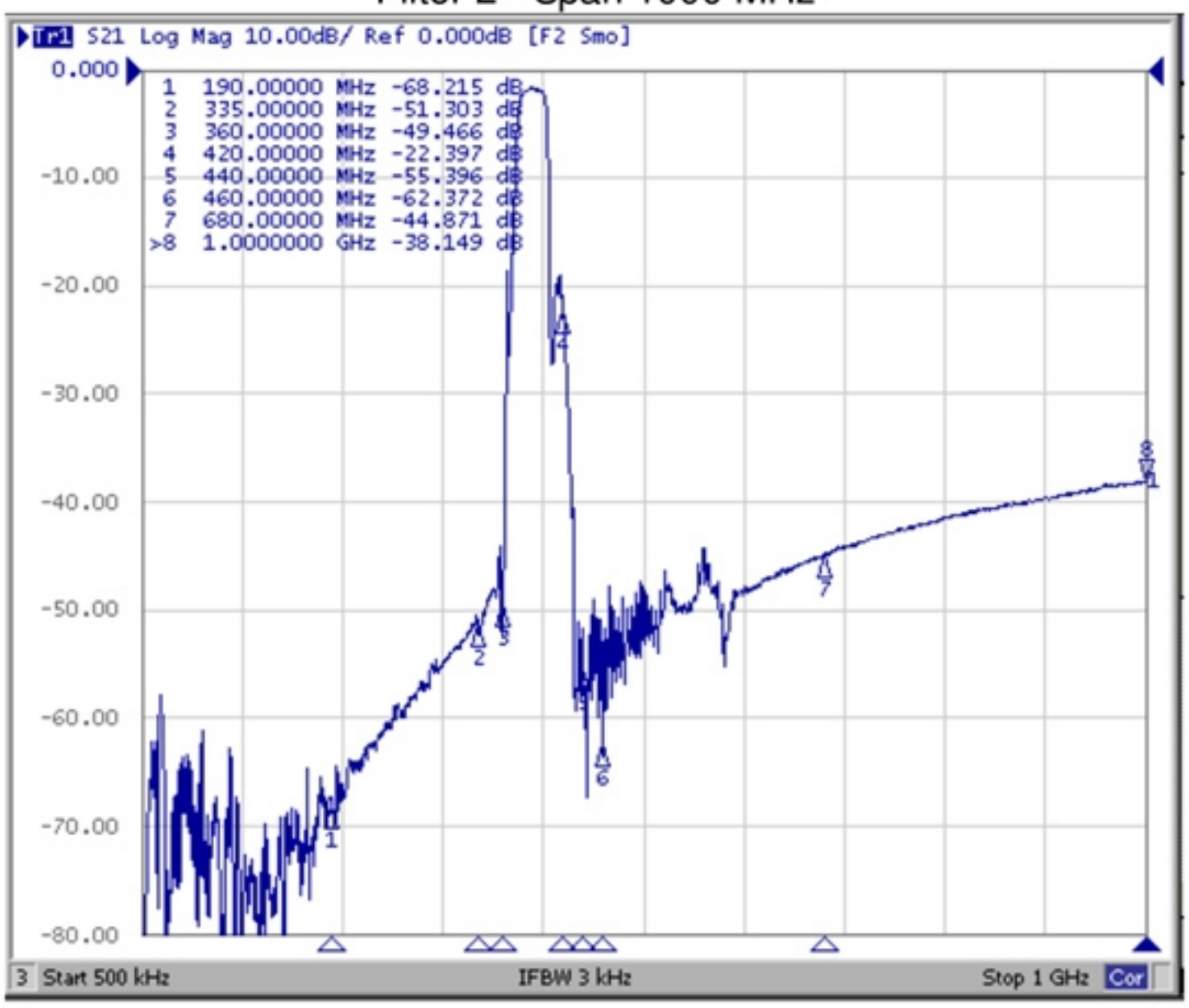
Filter 1 - Reflective characteristics



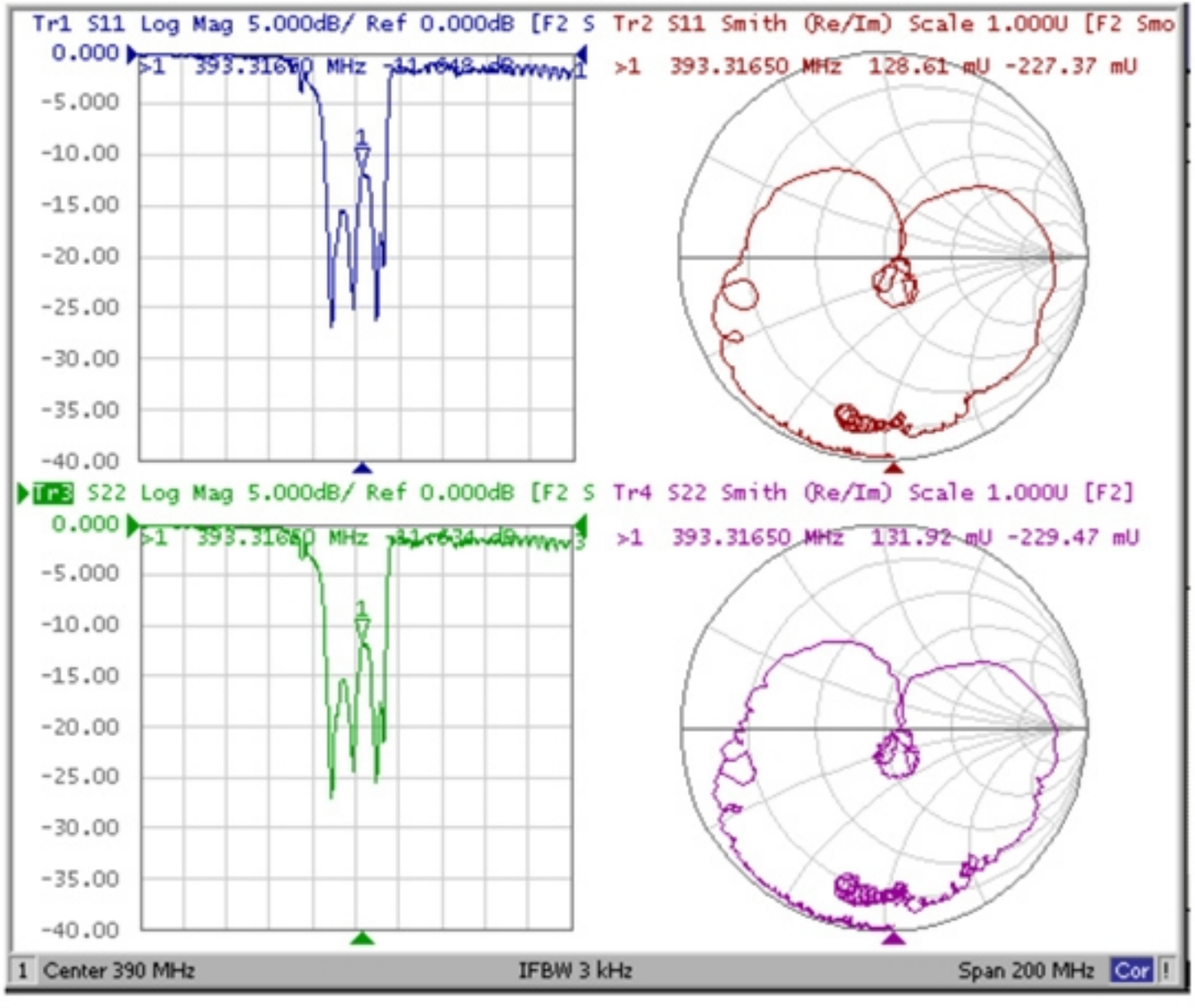
Filter 2 - Span 200 MHz



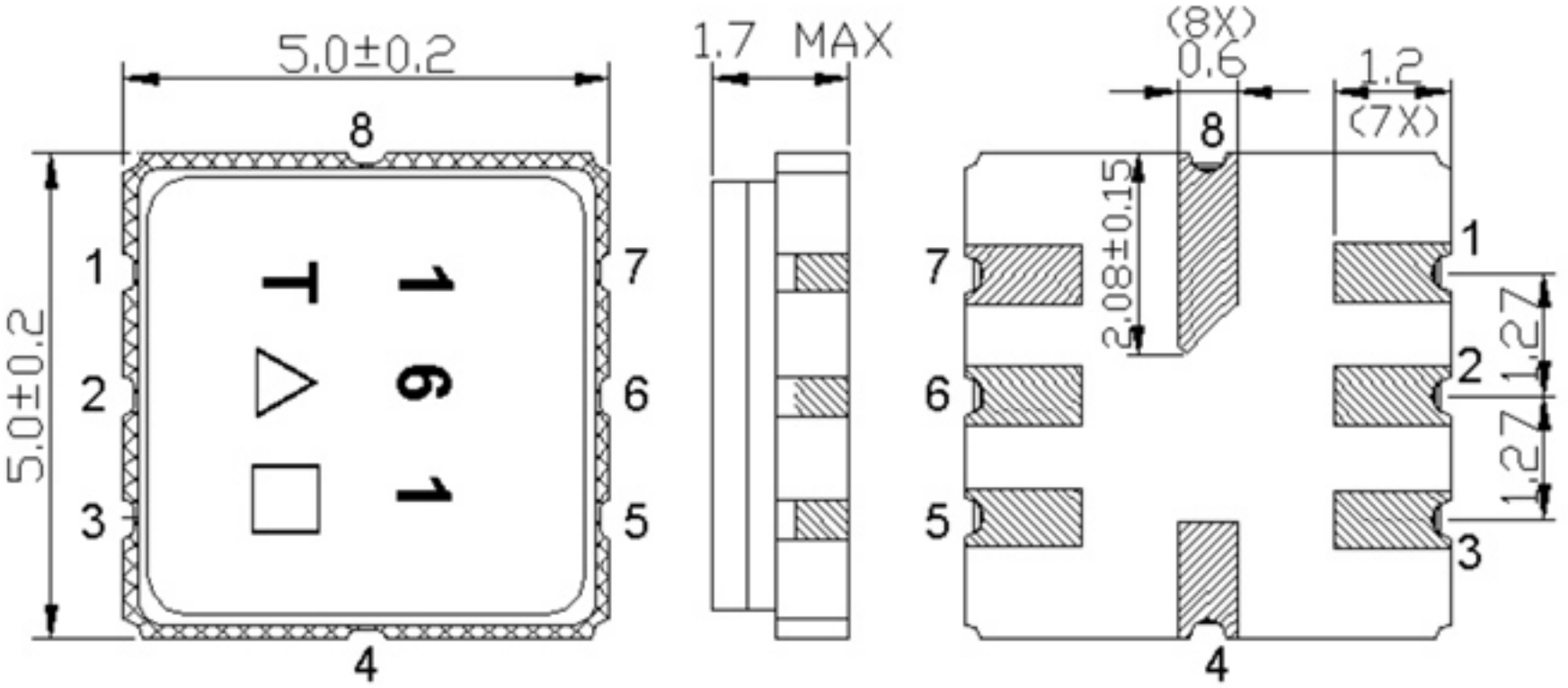
Filter 2 - Span 1000 MHz



Filter 2 - Reflective characteristics



E.OUTLINE DRAWING:



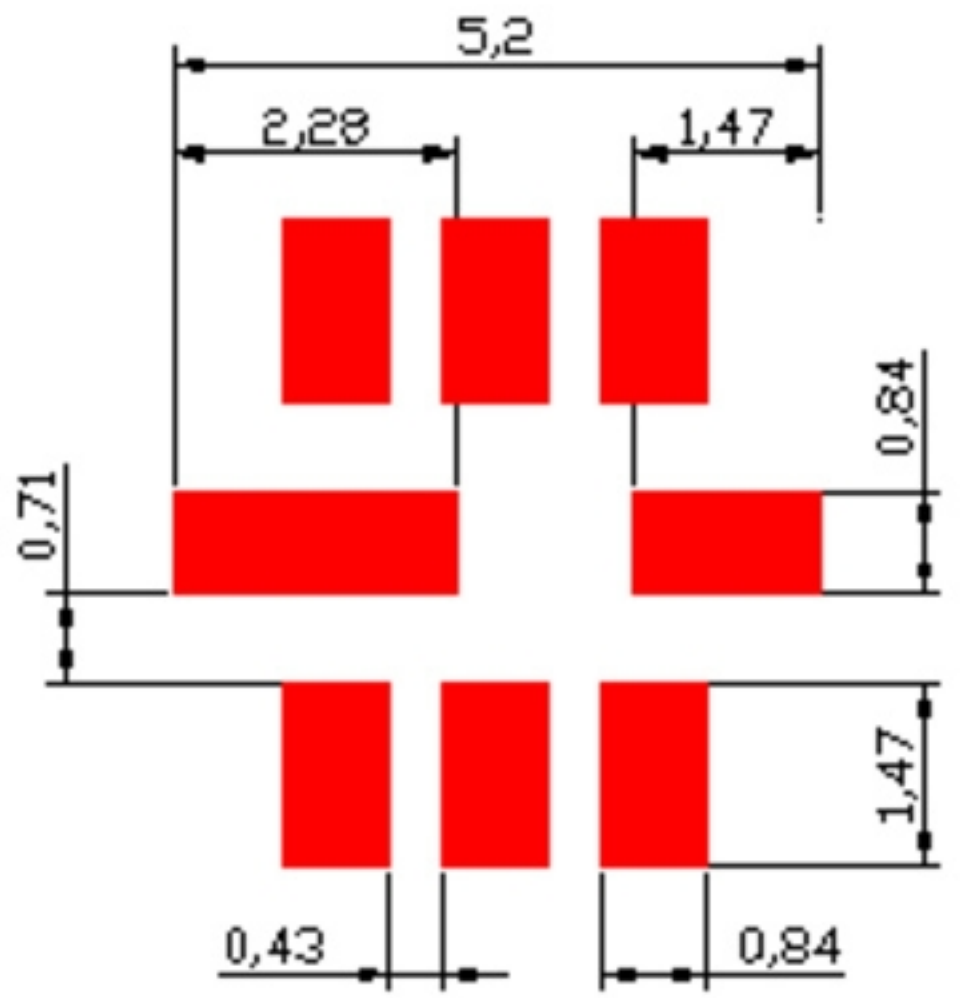
1	Input (Filter 1)	5	Output (Filter 2)
2	Grounded	6	Grounded
3	Input (Filter 2)	7	Output (Filter 1)
4	Case Ground	8	Case Ground

△ : Product / Year Code

□ : Date Code (W01->A,W02->B,…W27->a,…,W52->z)

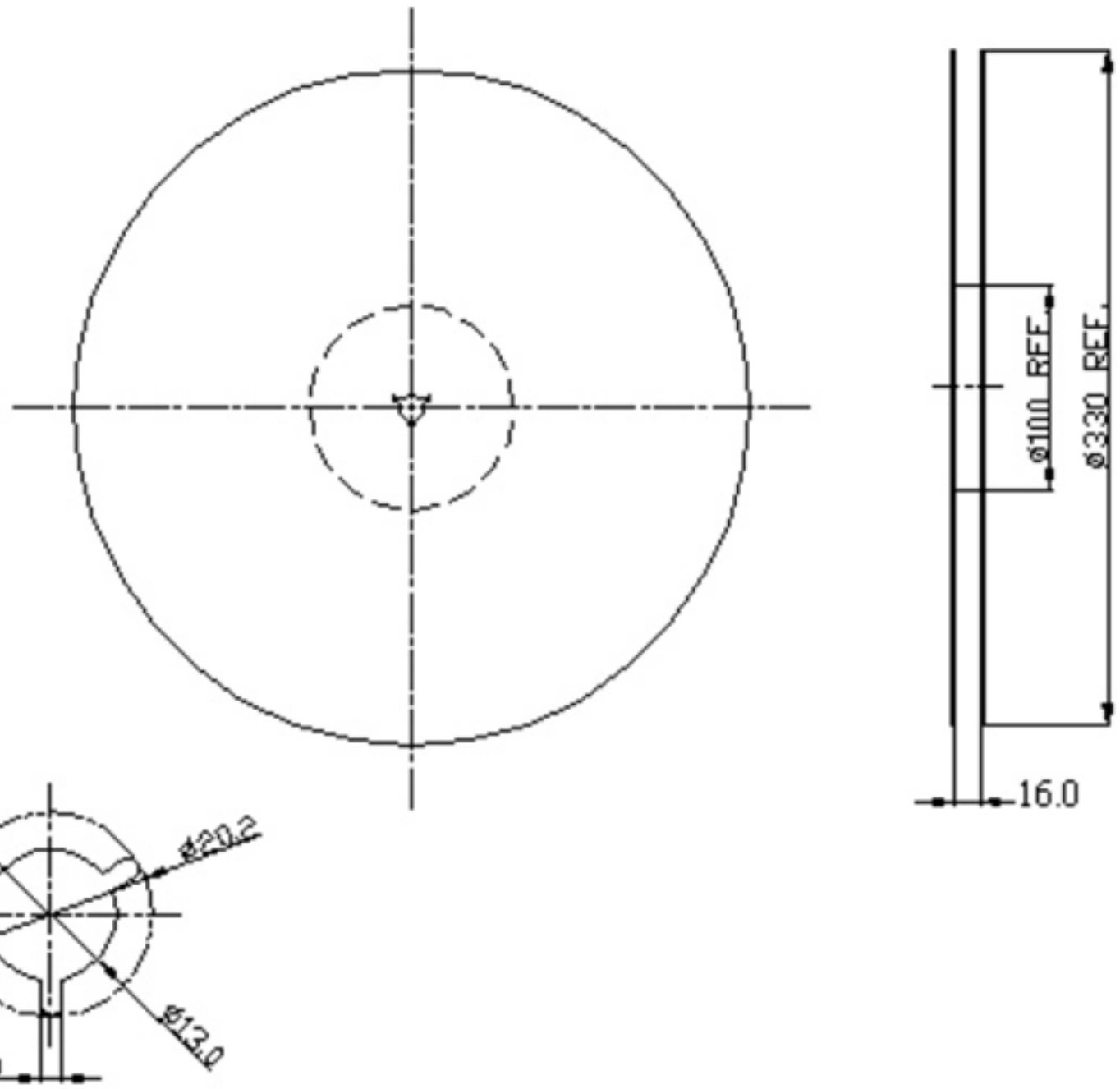
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	E	e	E	e

F. PCB FOOTPRINT:

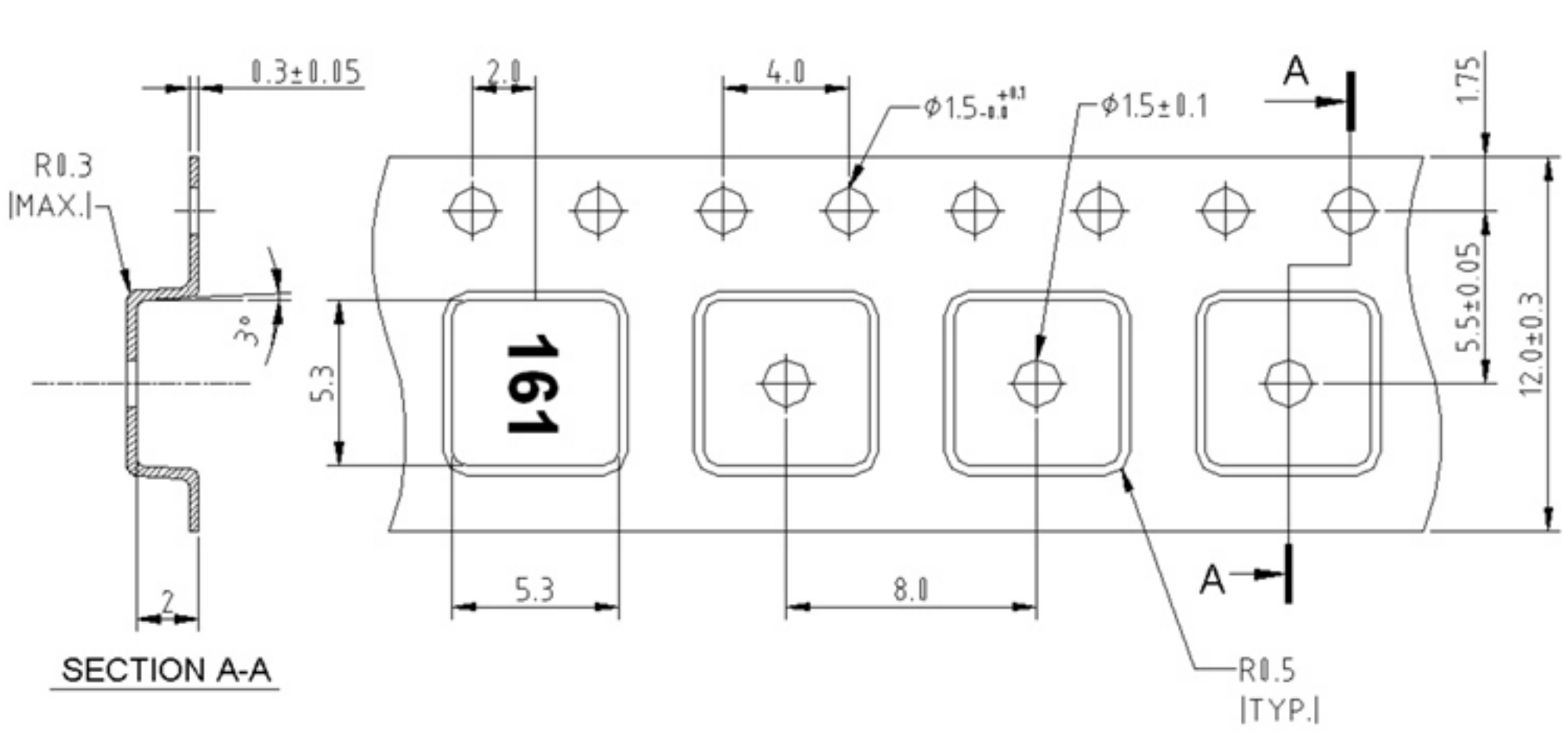


G. PACKING:

1. REEL DIMENSION
(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.