TAI-SAW TECHNOLOGY CO., LTD.
No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

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

TST Parts No.: TE0161A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Sam Lin

Approval by: Andy Yu

Date: 2020/05/22

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes

TAI-SAW TECHNOLOGY CO., LTD.
No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

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:

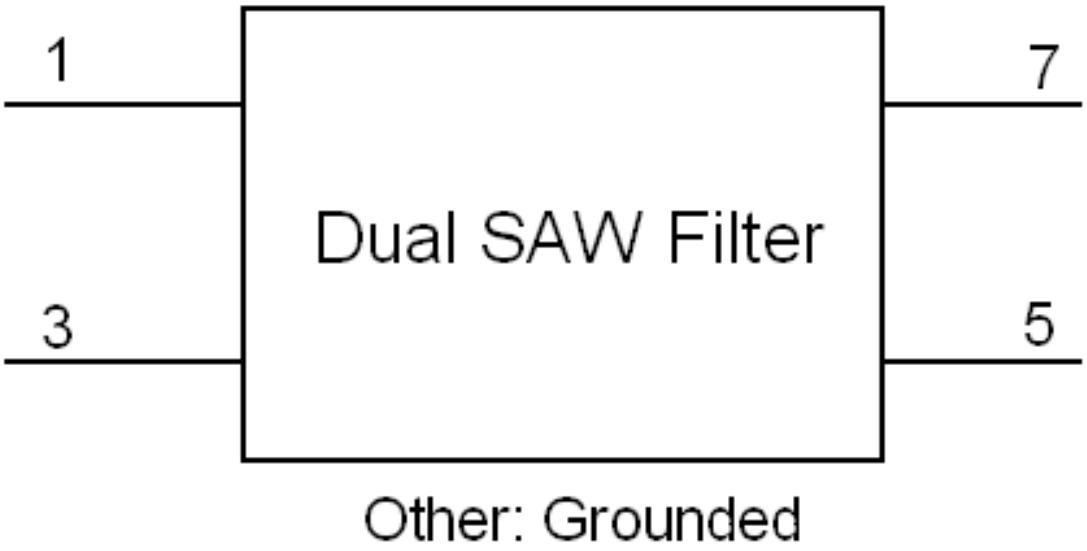
Terminating source impedance (single) : Z_S = 50 Ω

Terminating load impedance(single) : Z_L = 50 Ω

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		

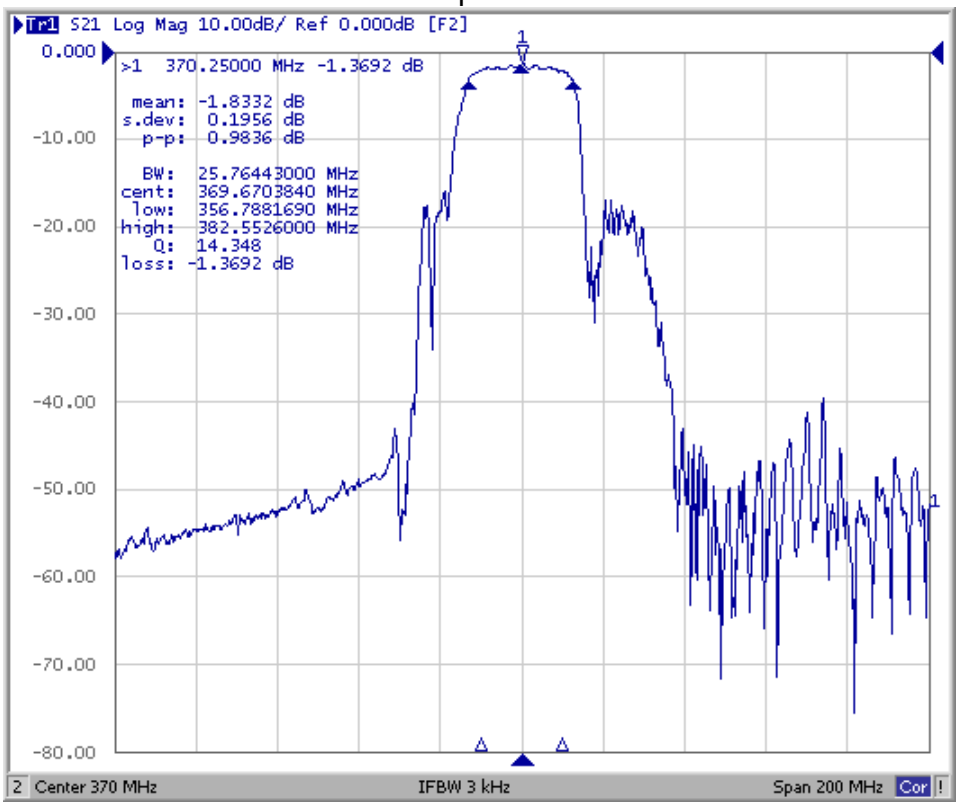
Item (Filter 2)	Unit	Min	Typ.	Max
Center frequency	MHz	-	390	-
Insertion Loss (380 – 400 MHz)	dB	-	2.4	3.0
Amplitude Ripple (380 – 400 MHz)	dB	-	1.0	2.0
Return Loss (380 – 400 MHz)	dB	8.0	11.0	-
Attenuation (Reference level from 0 dB)				
10 – 190 MHz	dB	35	55	-
190 – 335 MHz	dB	30	51	-
335 – 360 MHz	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:

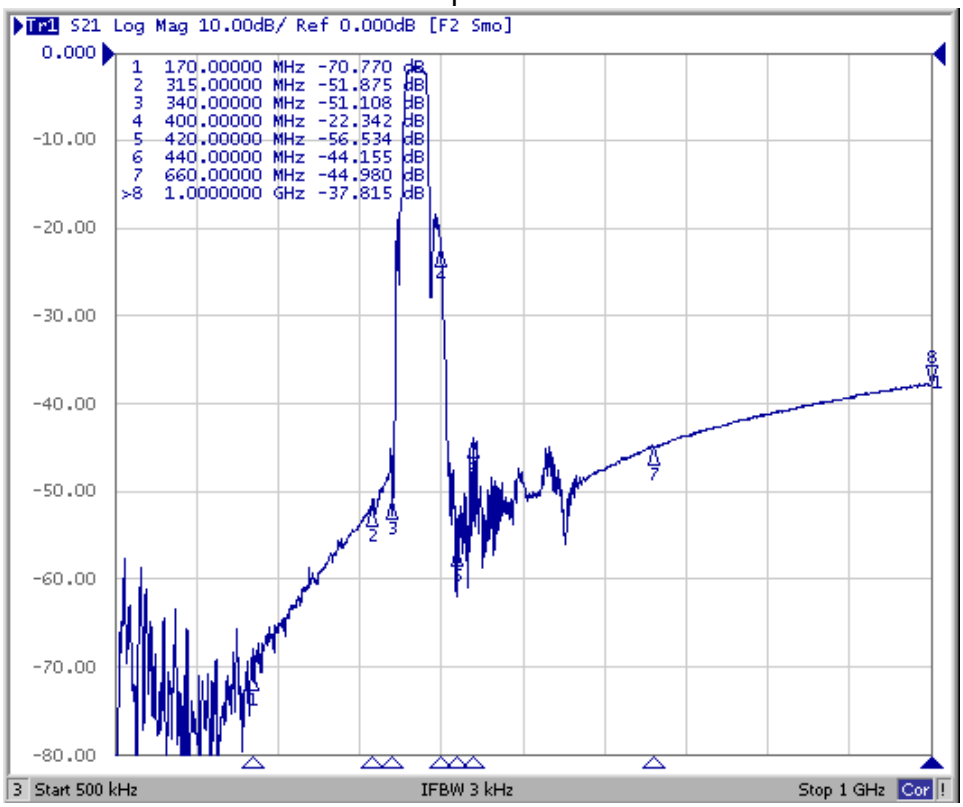


D. Frequency Characteristics:

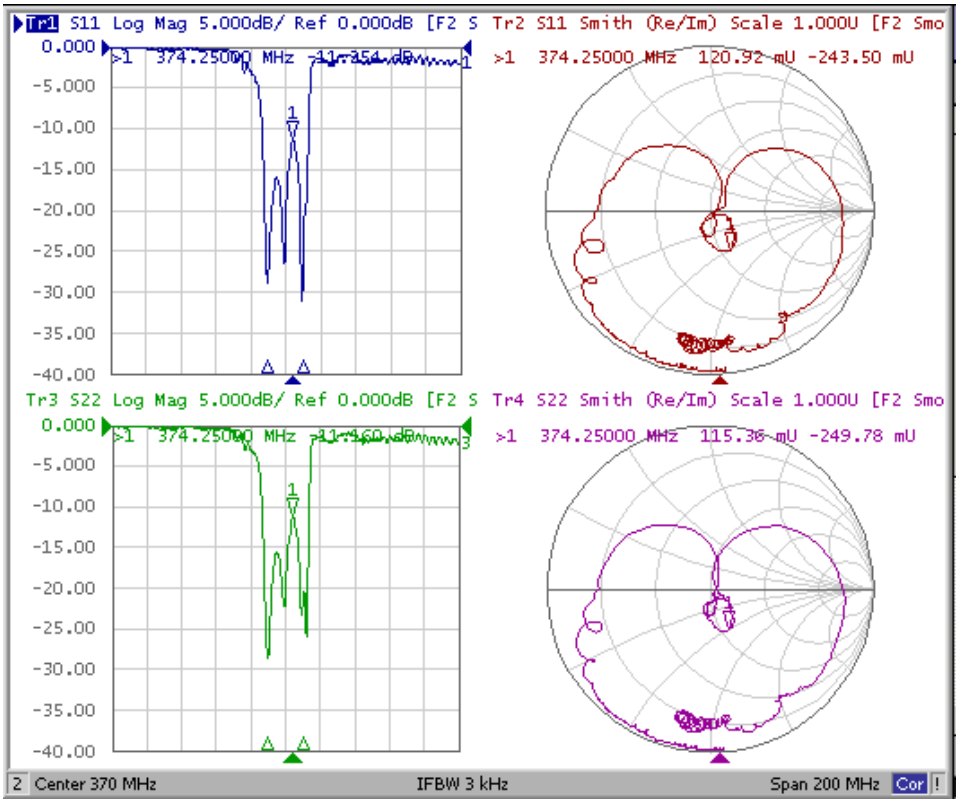
Filter 1 - Span 200 MHz



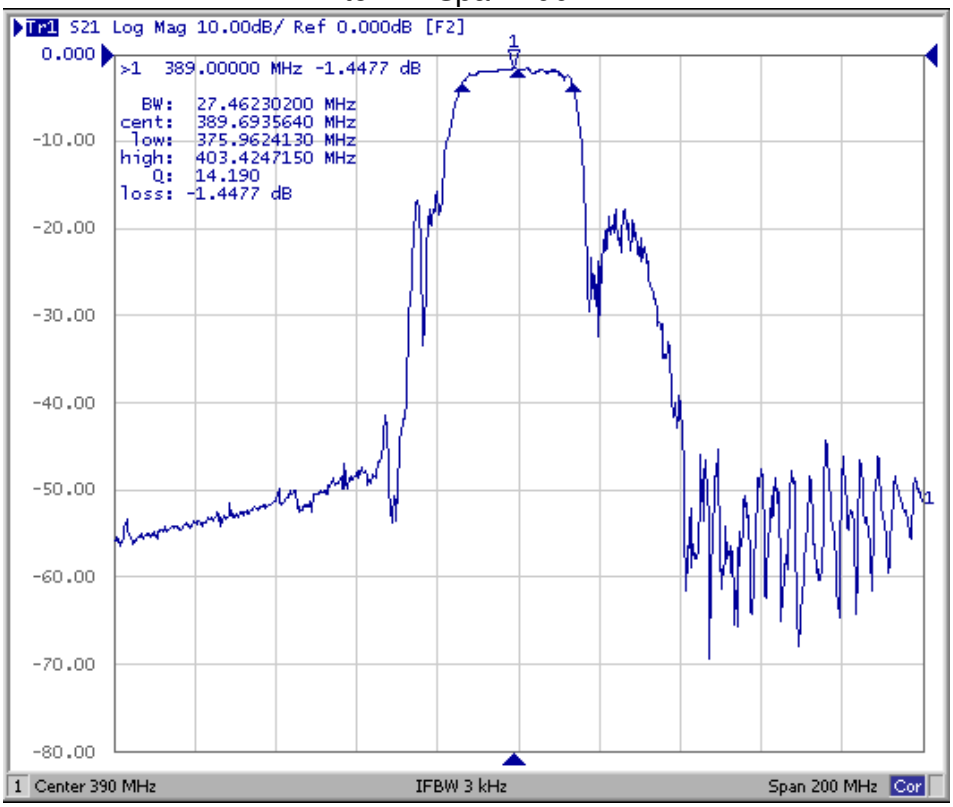
Filter 1 - Span 1000 MHz



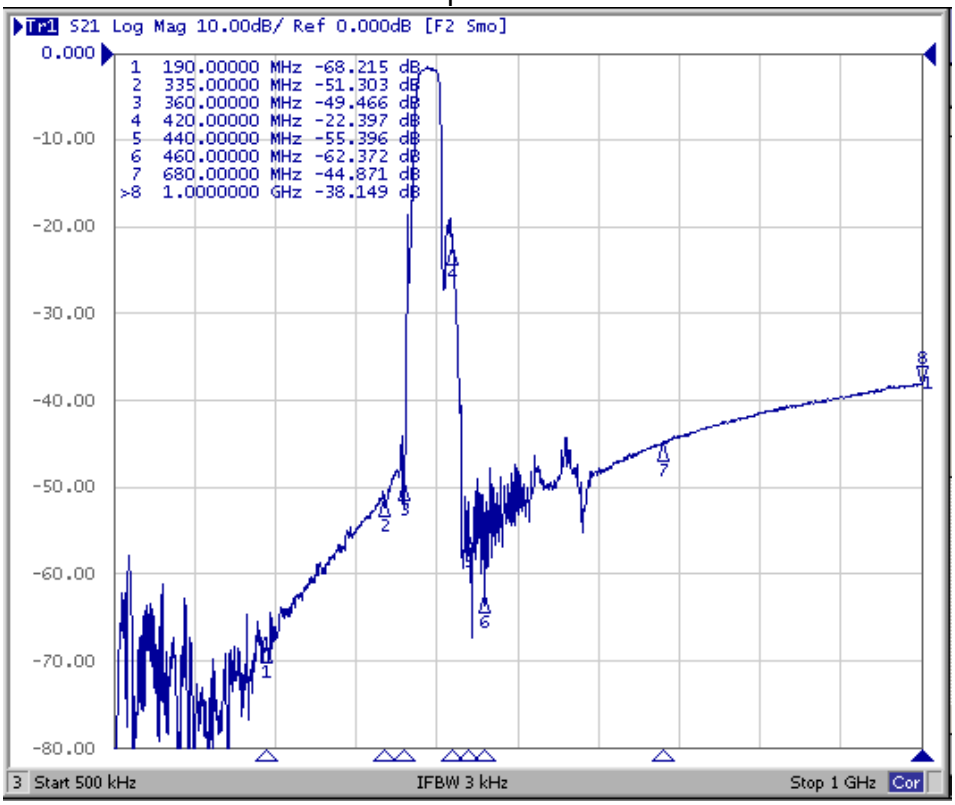
Filter 1 - Reflective characteristics



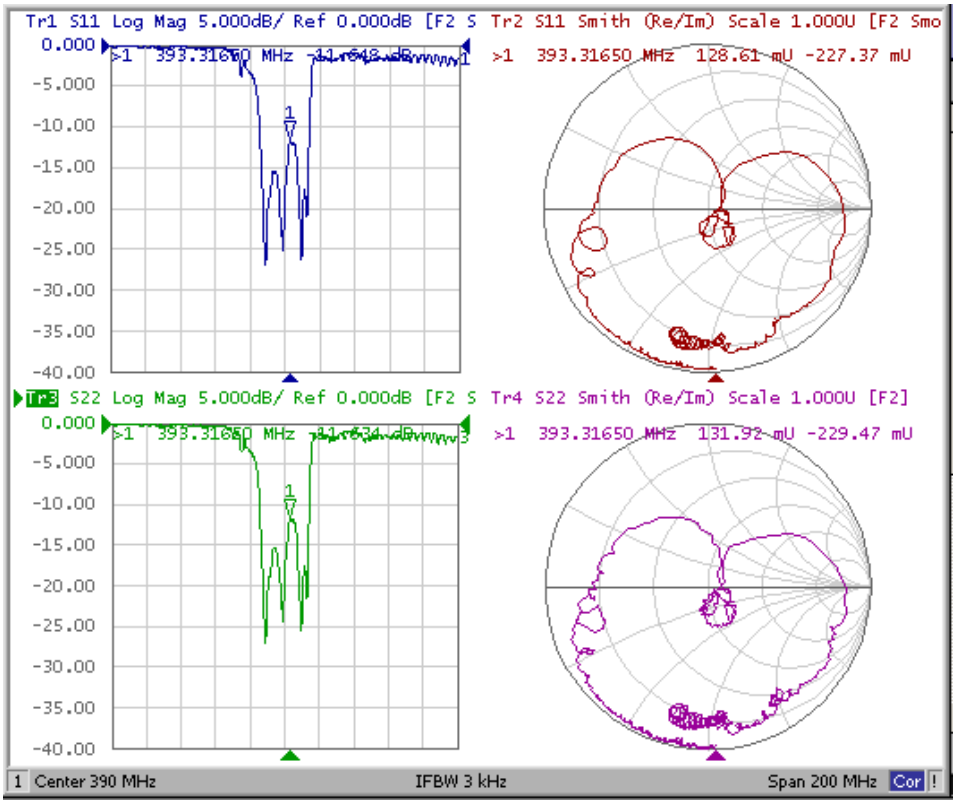
Filter 2 - Span 200 MHz



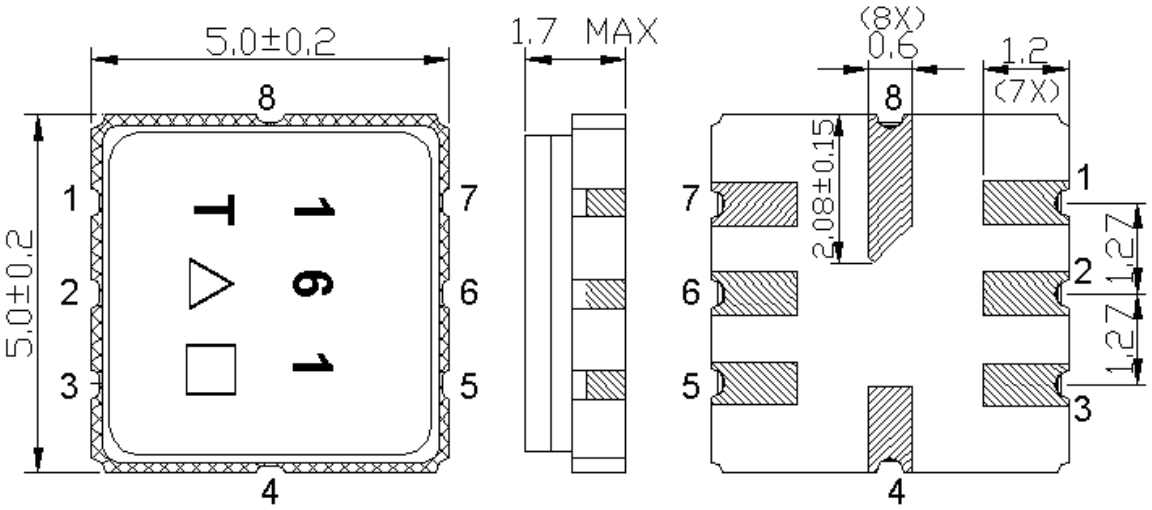
Filter 2 - Span 1000 MHz



Filter 2 - Reflective characteristics



E.OUTLINE DRAWING:



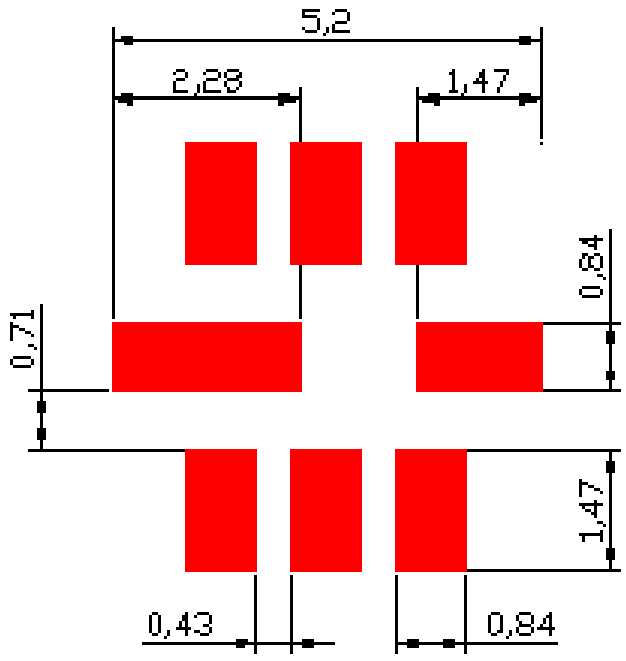
1	Input (Filter 1)	5	Output (Filter 2)
2	Grounded	6	Grounded
3	Input (Filter 2)	7	Output (Filter 1)
4	Case Ground	8	Case Ground

△ : 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

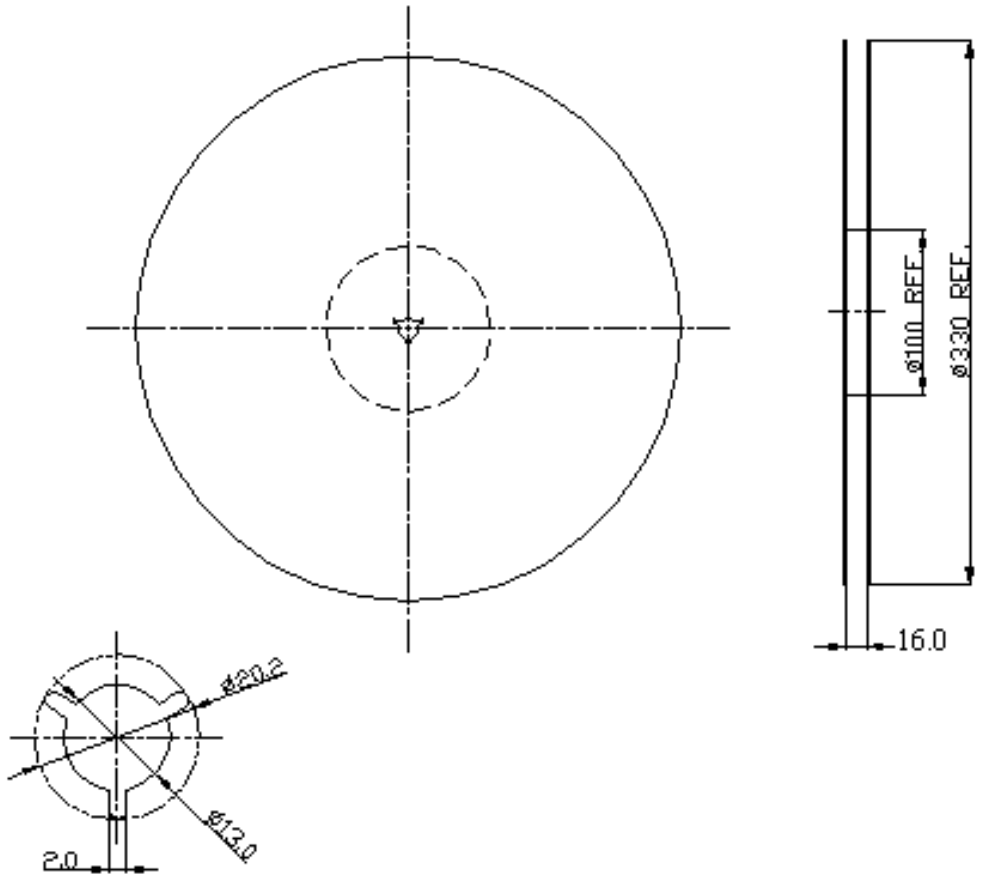
F. PCB FOOTPRINT:



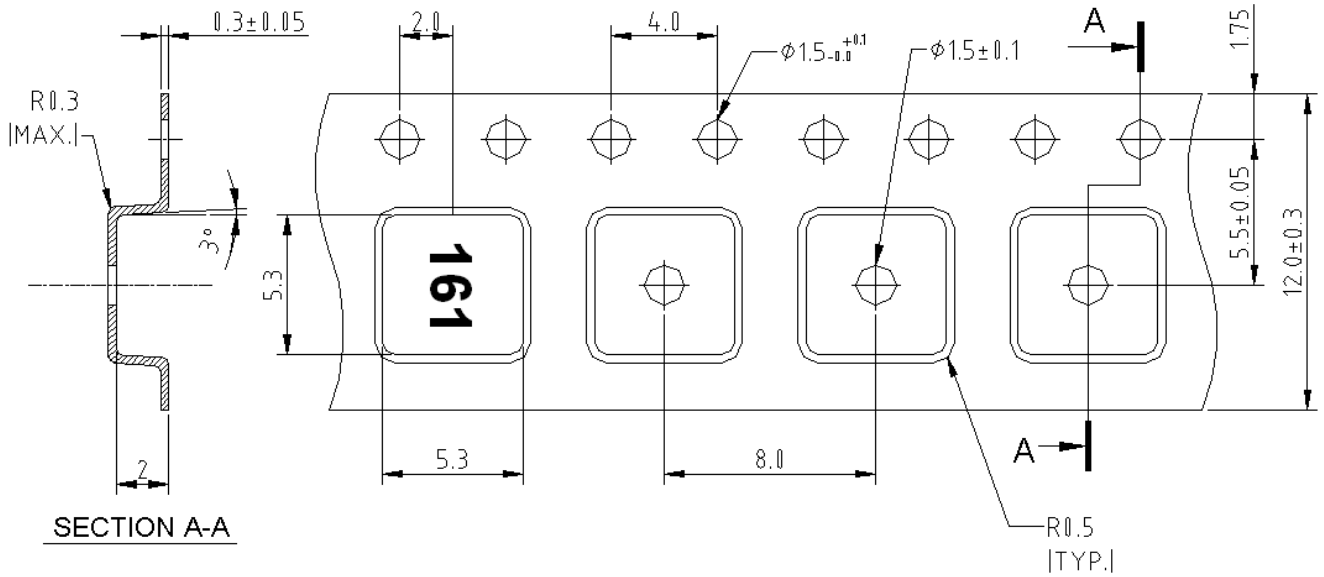
G. PACKING:

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.