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Product Specifications Approval Sheet

Product Description: 400MHz 0.15MHz BW SMD 3.0 x 3.0 mm SAW IF Filter

TST Parts No.: TB0564A

Customer Parts No.: _____

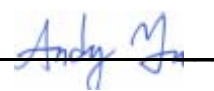
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Andy Yu 

Date: _____ 11 / 19 / 2017

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.

SAW Filter 400MHz

MODEL NO.:TB0564A

REV. NO.:4

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

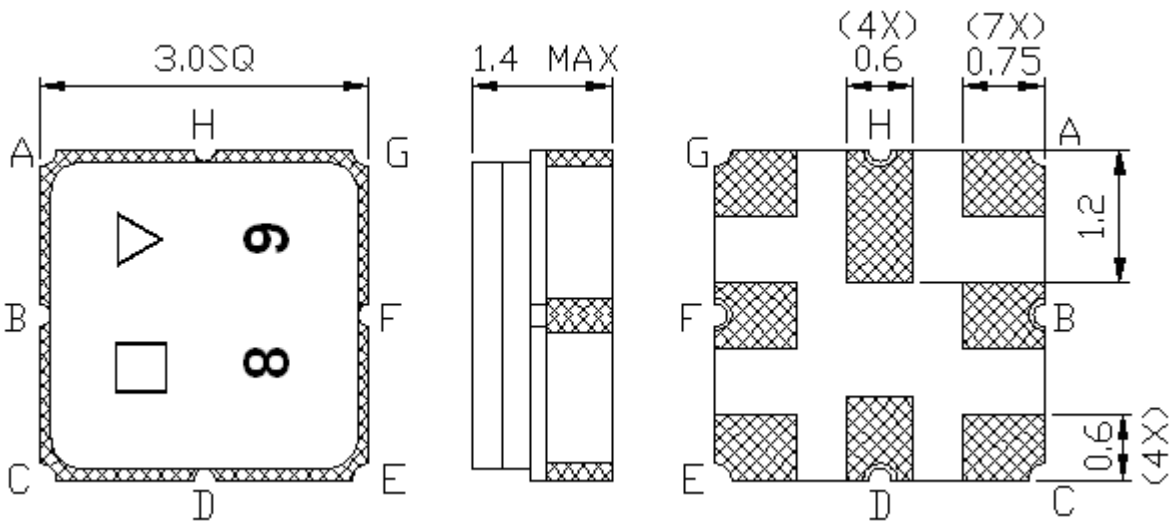
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center frequency, Fc	MHz	-	400	-	-
Max. Insertion loss (Fc ± 75 kHz) (excluding loss in matching elements) IL	dB	-	4.3	6.0	-
Max. Insertion loss (Fc ± 75 kHz) (including loss in matching elements) IL	dB	-	5.2	7.5	-
Passband Ripple (Fc ± 75 kHz)	dB	-	0.4	2	-
Group Delay Ripple (Fc ± 75 kHz)	μ sec	-	0.6	2	-
Relative Attenuation (relative to IL)					
Fc - 100 to Fc - 1.5 MHz	dB	35	60	-	-
Fc - 1.5 to Fc - 0.8 MHz	dB	20	46	-	-
Fc - 0.8 to Fc - 0.6 MHz	dB	10	39	-	-
Fc - 0.6 to Fc - 0.4 MHz	dB	7	27	-	-
Fc + 0.4 to Fc + 0.6 MHz	dB	7	27	-	-
Fc + 0.6 to Fc + 0.8 MHz	dB	10	39	-	-
Fc + 0.8 to Fc + 1.5 MHz	dB	20	46	-	-
Fc + 1.5 to Fc + 100 MHz	dB	35	57	-	-
Temperature coefficient of frequency TCf	-0.036 ppm/K ²				

C.OUTLINE DRAWING:



- A: Input
- B: Input ground balanced input
- E: Output
- F: Output ground balanced output
- C, D, G, H: Ground

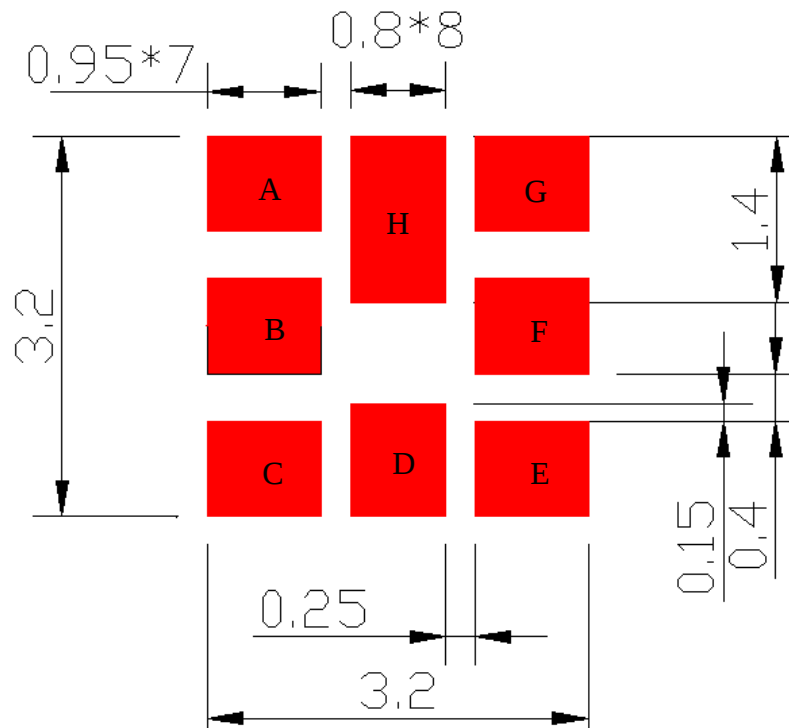
Unit: mm

△ : Year Code (2011->1... 2019->9, 2020->0 ...)

□ : Week Code

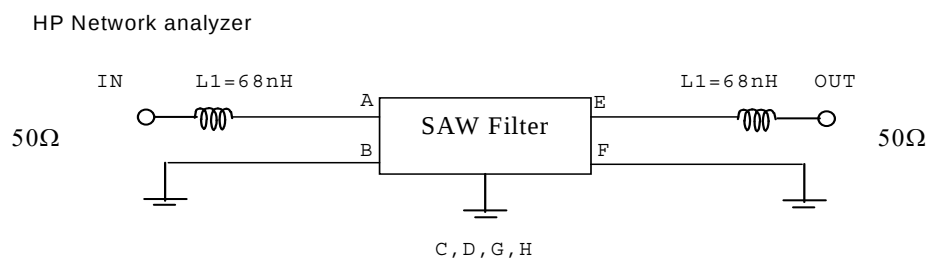
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

D. PCB FOOTPRINT:

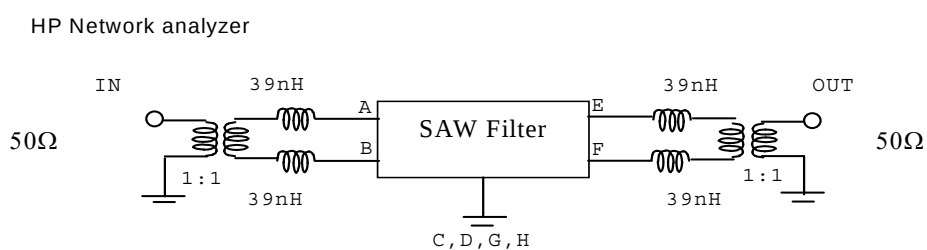


E. MEASUREMENT CIRCUIT:

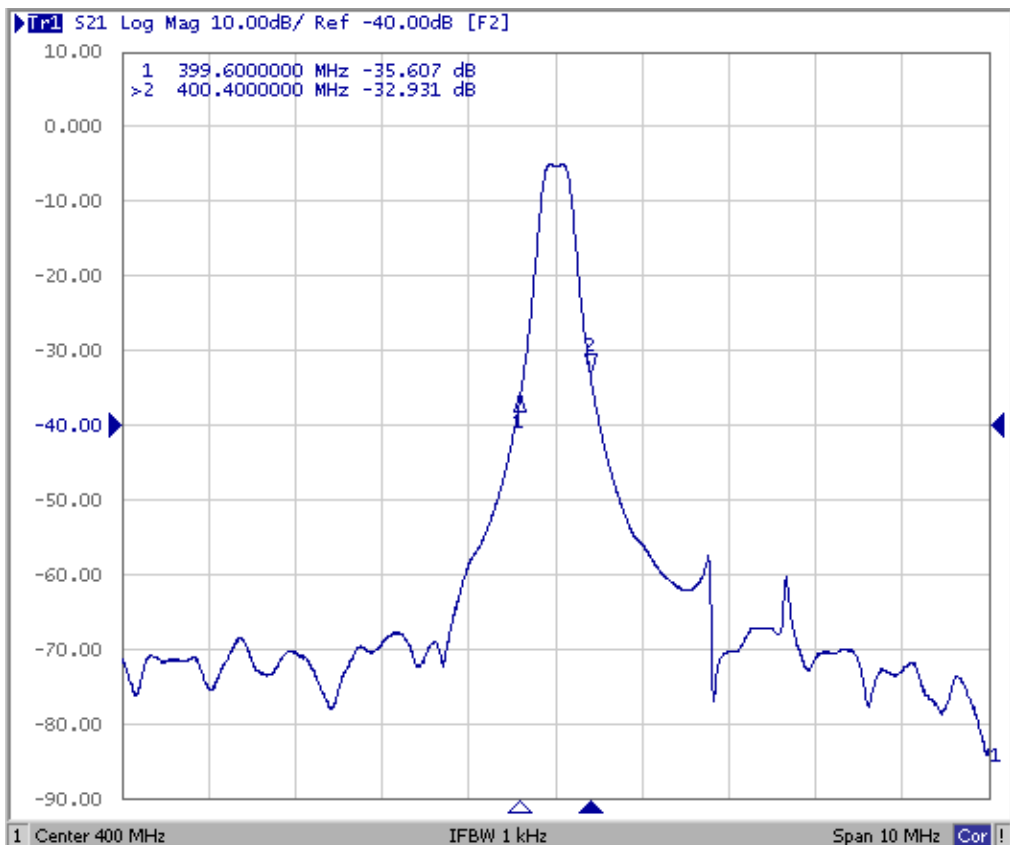
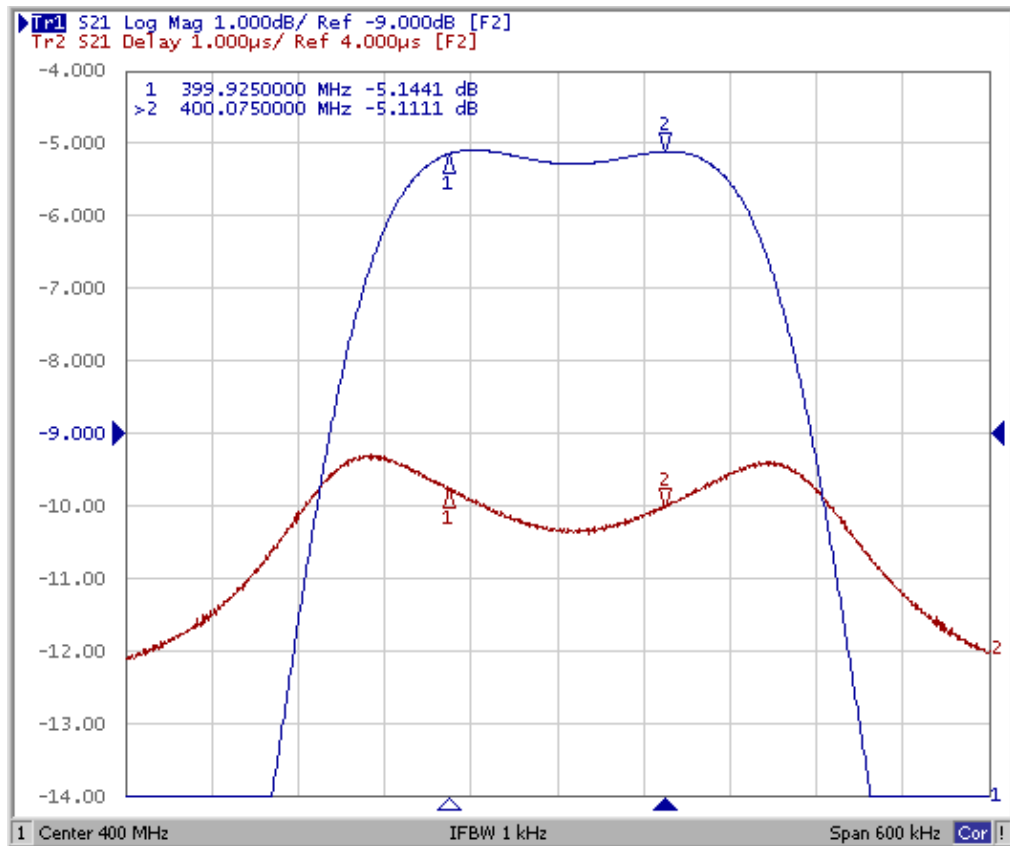
50 Ohm Test circuit (single-ended / single-ended)

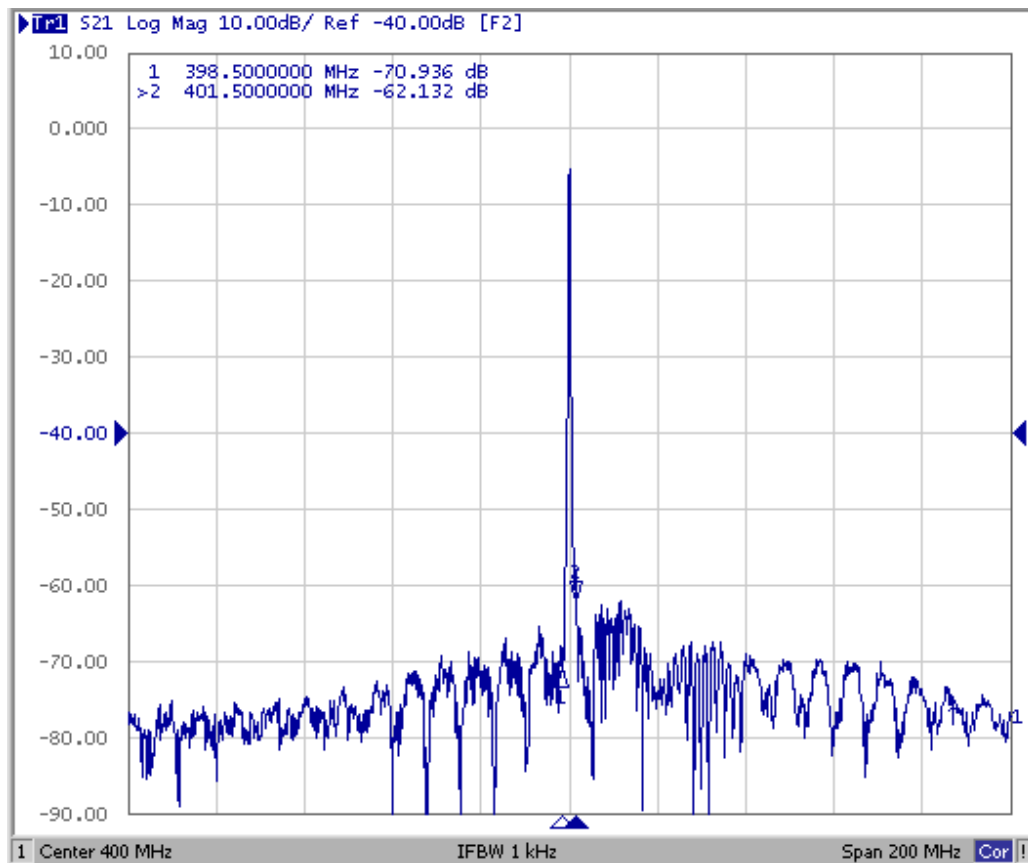


50 Ohm Test circuit (balanced-ended / balanced-ended)



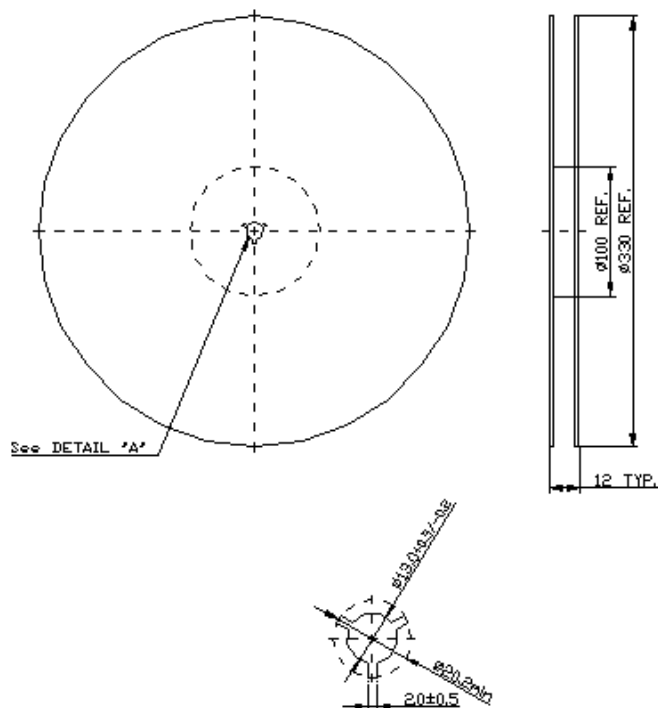
F. FREQUENCY CHARACTERISTICS:



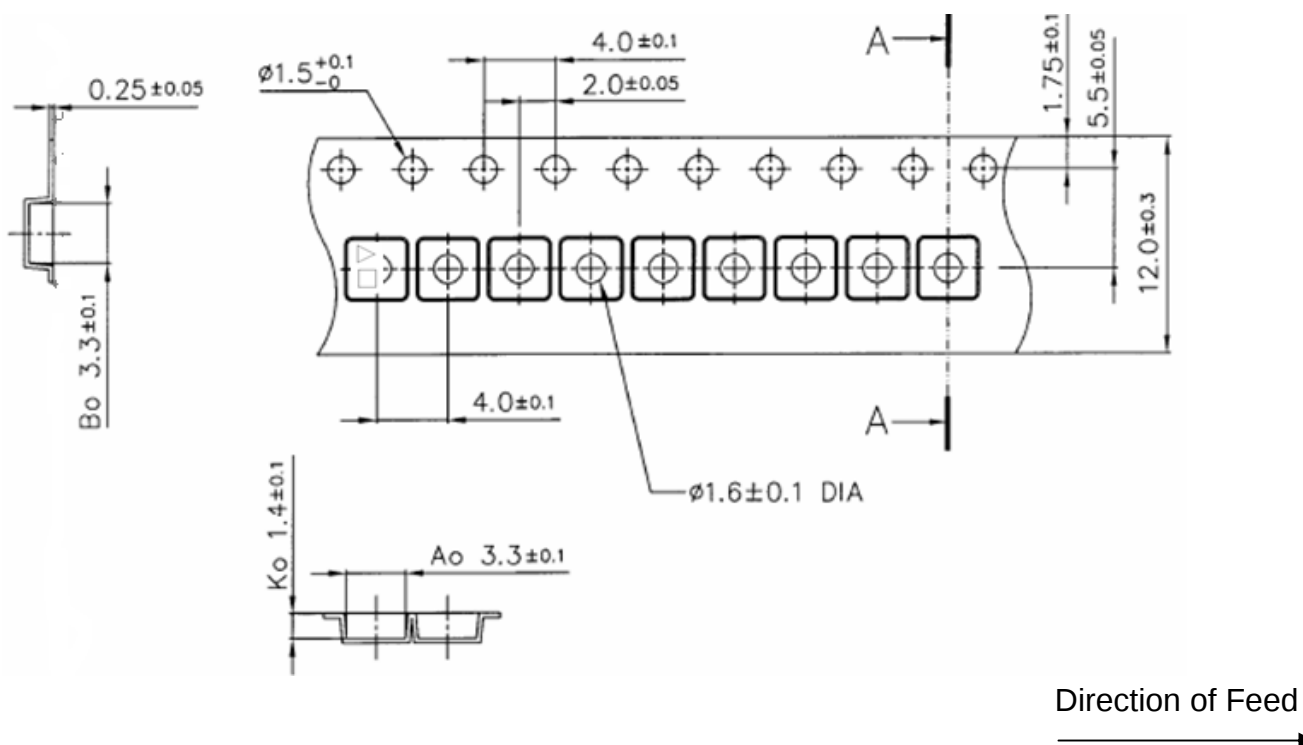


G. PACKING:

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°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°C+0/-5°C peak (20~40sec).
4. Time: 2 times.

