

SAW Filter 763.0MHz
Part No: MP09312

Model: TA2509A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 0V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -30°C to +85°C
5. Moisture Sensitivity Level: Level 1
6. ESD 50V (MM), 100V (HBM)

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (Unbalanced)⁽¹⁾: $Z_S = 50\Omega$
2. Terminating load impedance (Unbalanced)⁽¹⁾: $Z_L = 50\Omega$

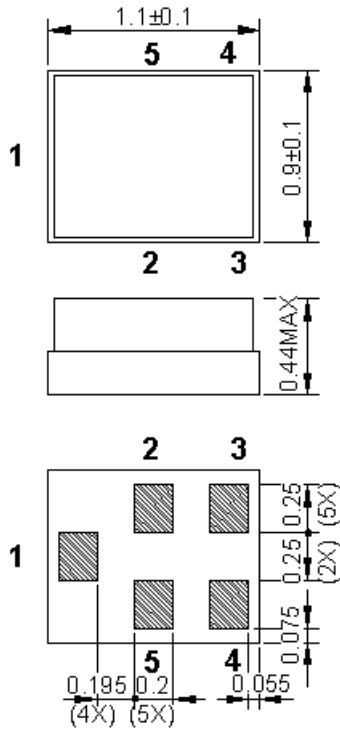
Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	763	-	-
Insertion Loss (758 ~ 768MHz) IL	dB	-	2.2	3.0	(*1)
Amplitude ripple(758 ~ 768MHz)	dB p-p	-	0.7	2.0	-
VSWR (758~768MHz)		-	1.8	2.1	-
Attenuation (reference level from 0dB)					
50~ 698MHz	dB	30	42	-	-
698 ~ 716MHz	dB	35	49		
788 ~ 798MHz	dB	44	49	-	Tx
2400 ~ 2500MHz	dB	35	42	-	-
4900 ~ 6000MHz	dB	30	37	-	-

(*1) Specification of insertion loss excludes loss that comes from the test board.

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C. OUTLINE DRAWING:



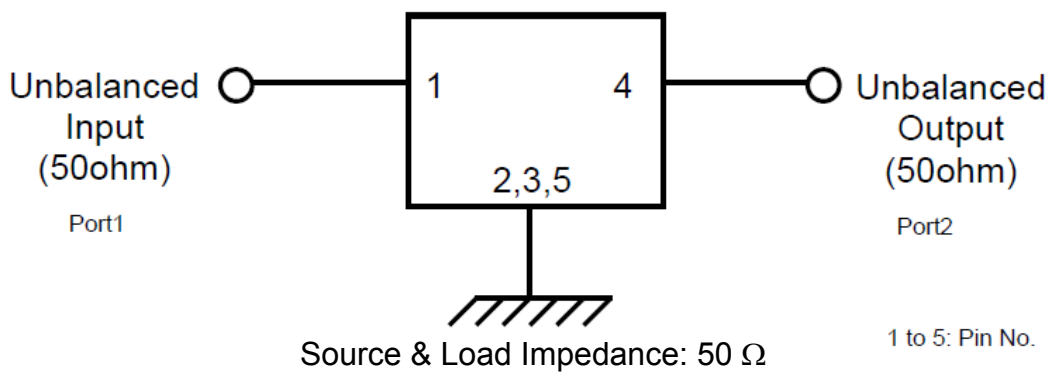
All tolerances are +/-0.05 mm unless otherwise specified
 Coplanarity : 0.1 mm max.
 1 to 5 : Pin No.
 Unit : mm

Pin assignment

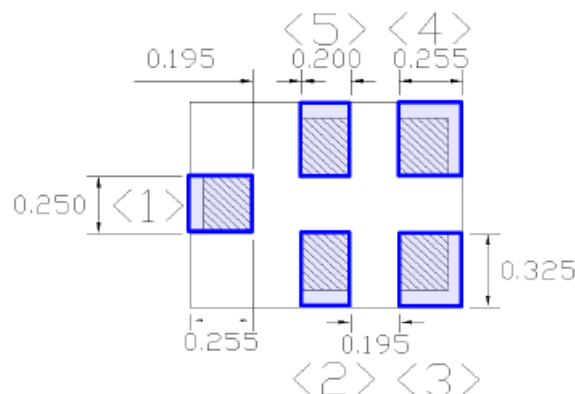
Pin No.	Pin name	Description
1	In	Input
2	GND	Ground
3	GND	Ground
4	Out	Output
5	GND	Ground

D. EVALUATION CIRCUIT:

Evaluation Circuit



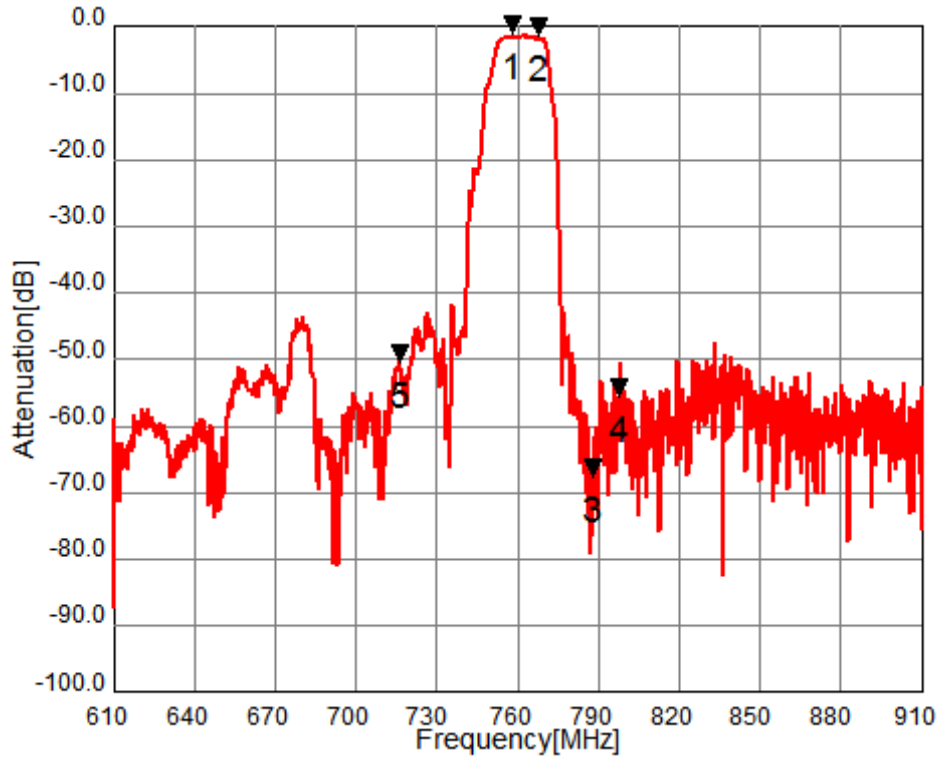
E. PCB FOOTPRINT:



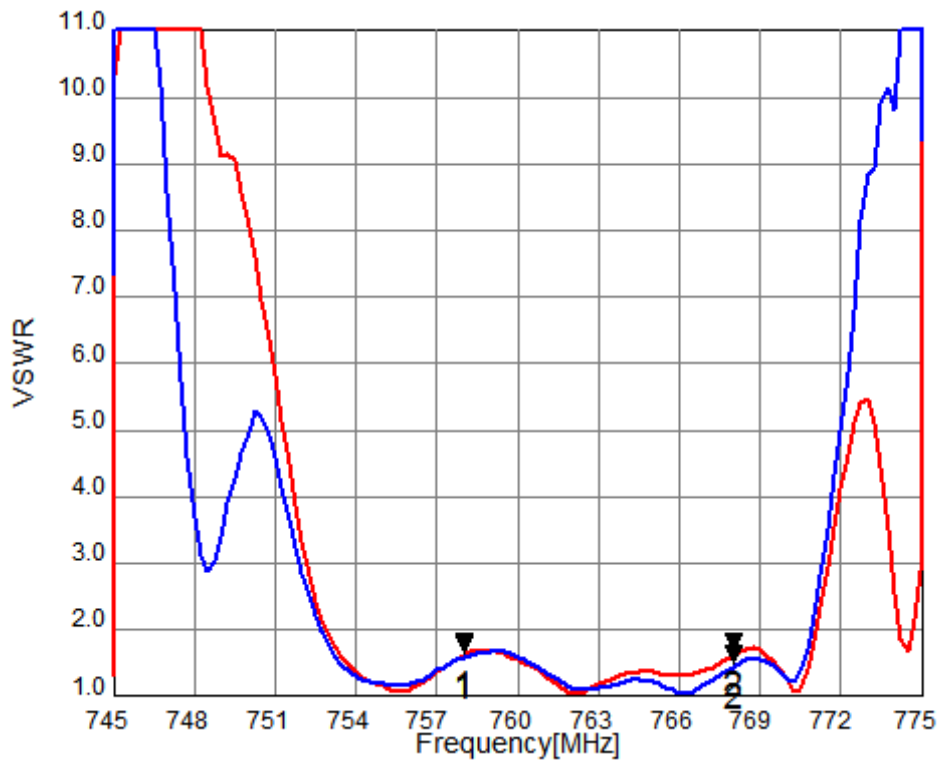
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F. FREQUENCY CHARACTERISTICS:



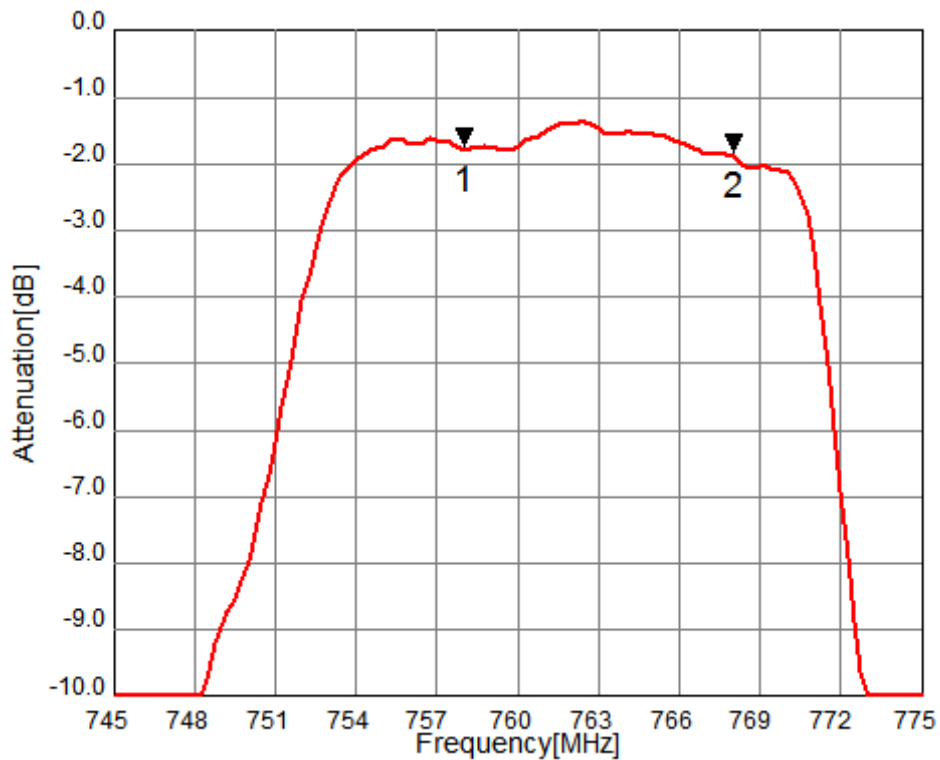
Pass-band Characteristics



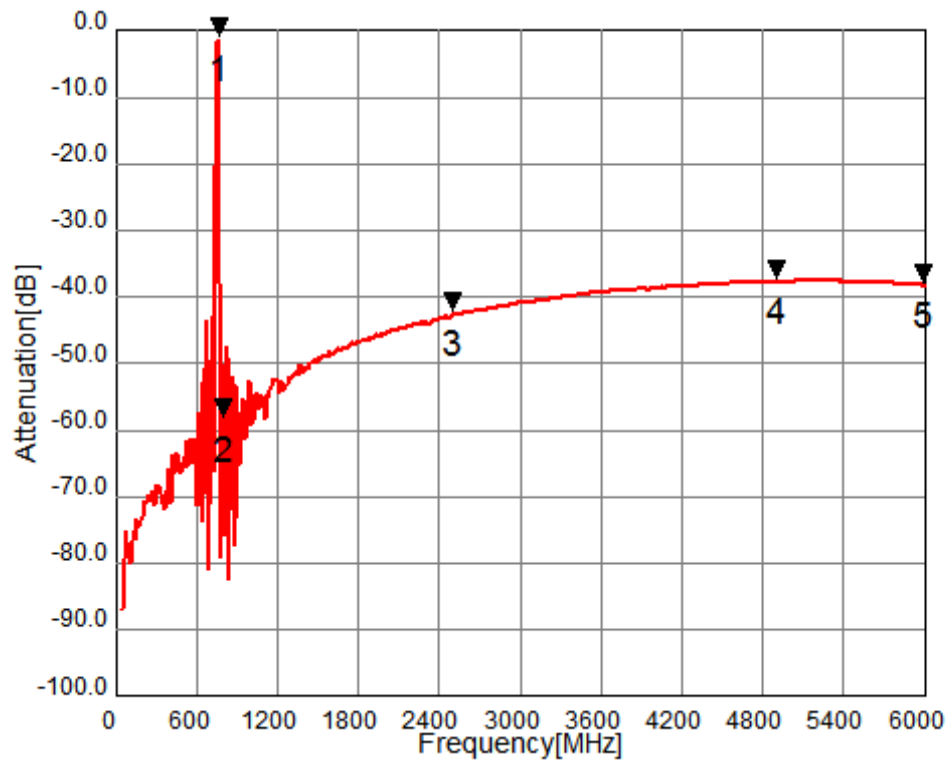
VSWR

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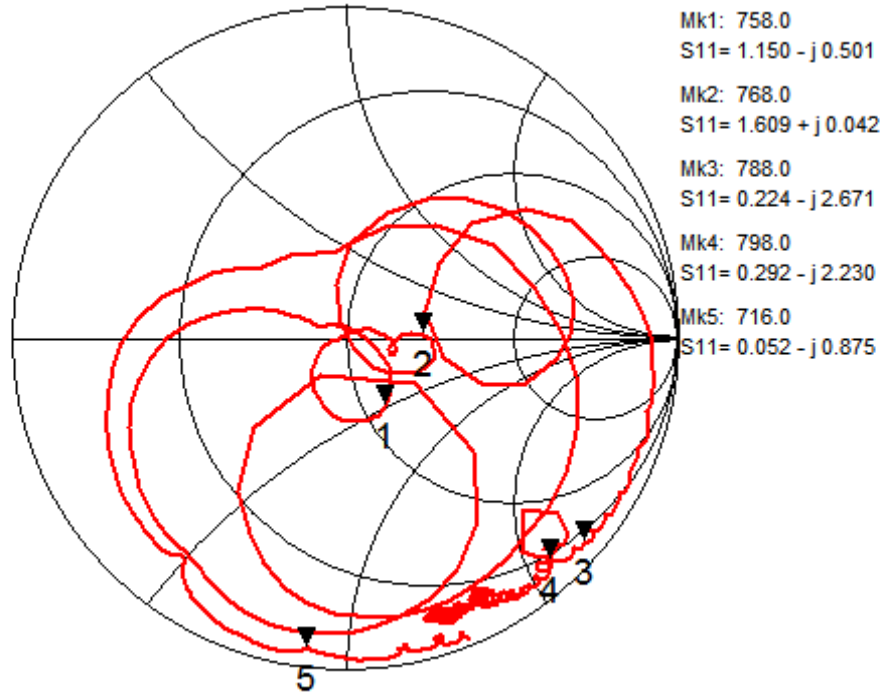
In-band Characteristics



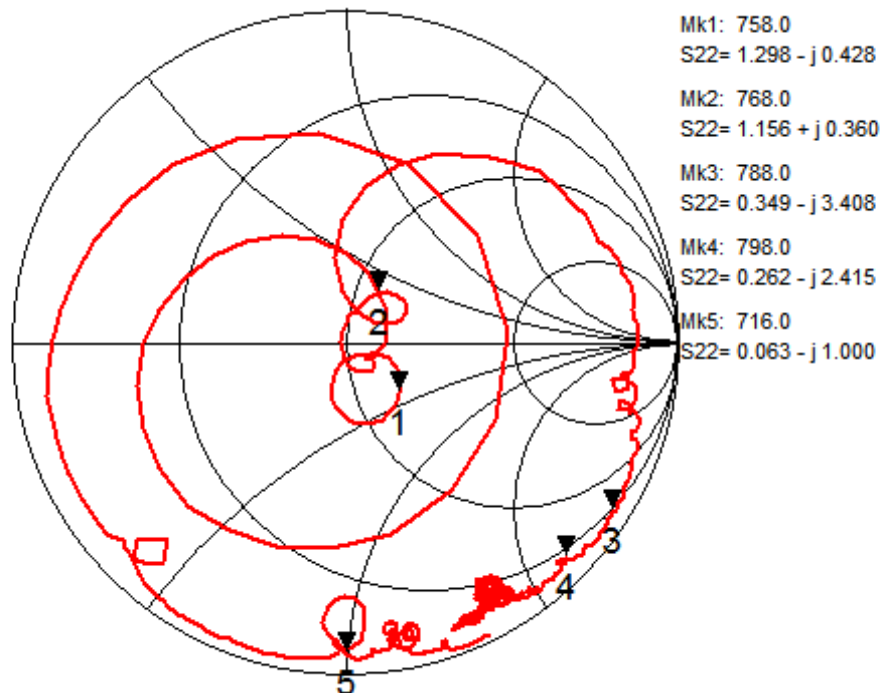
Wide-band Characteristics

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Impedance (Input)



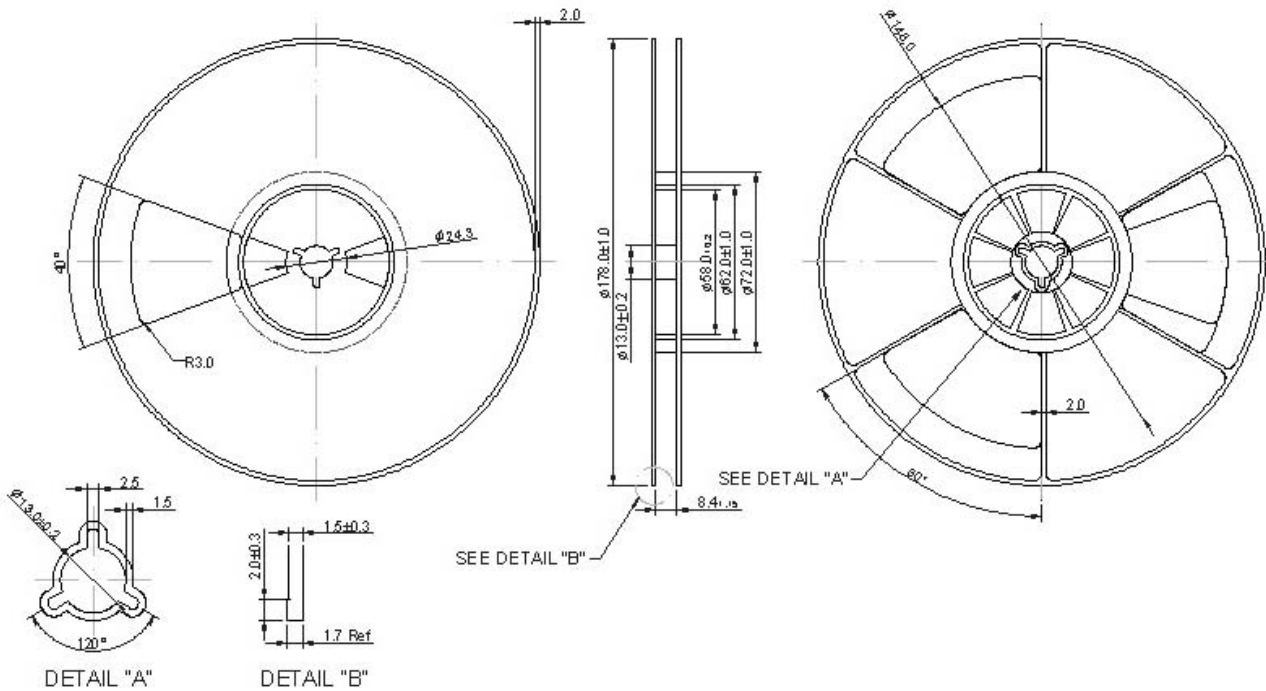
Impedance (Output)

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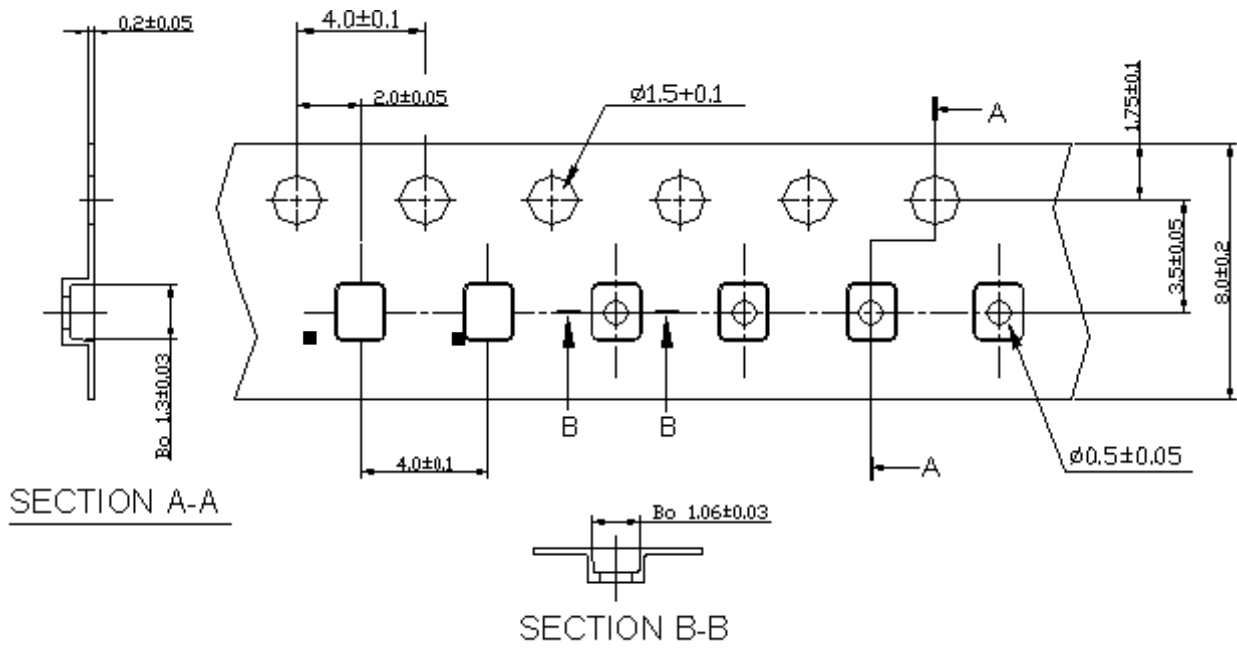
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



Direction of Feed



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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 245 ~ 260°C peak (min. 10 sec).
4. Time: 2 times.

