

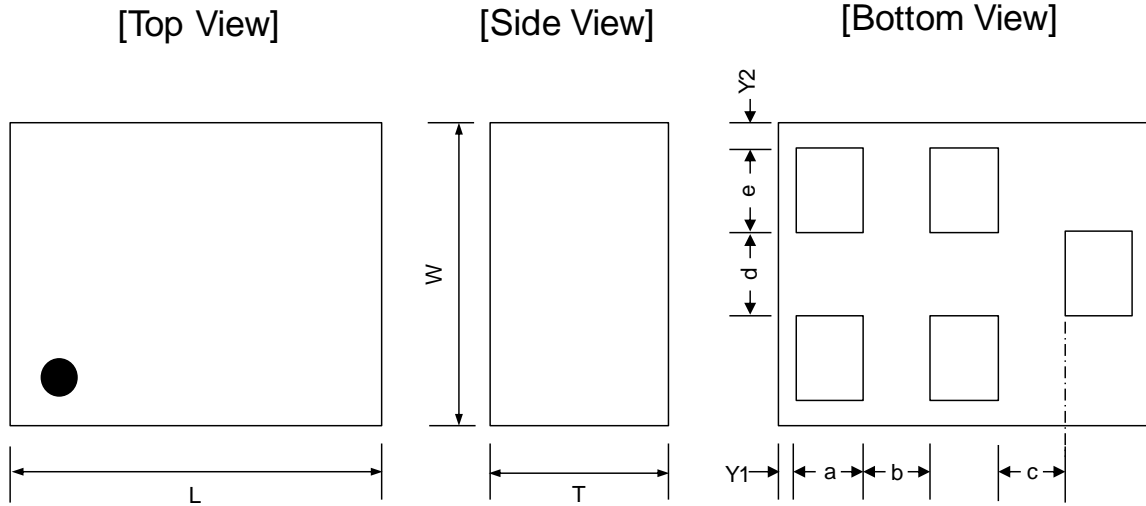


**SAW Band Pass Filter
For GPS/GLONASS/BEIDOU2**

1.1x0.9mm Size

SAFI1109GPSBPF1101

[Shapes and Dimensions]

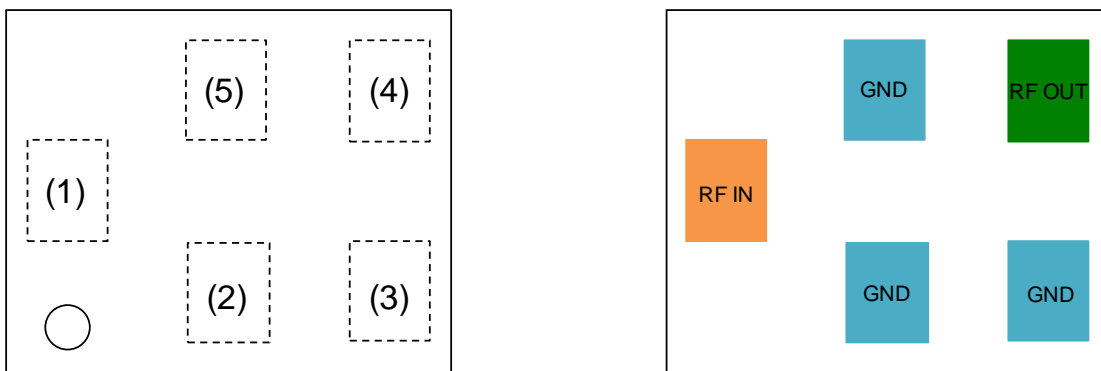


Dimensions (mm)

L	W	T	a	b	c	d	e	Y1	Y2
1.1	0.9	0.6	0.2	0.2	0.2	0.25	0.25	0.05	0.075
+/-0.10	+/-0.10	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05

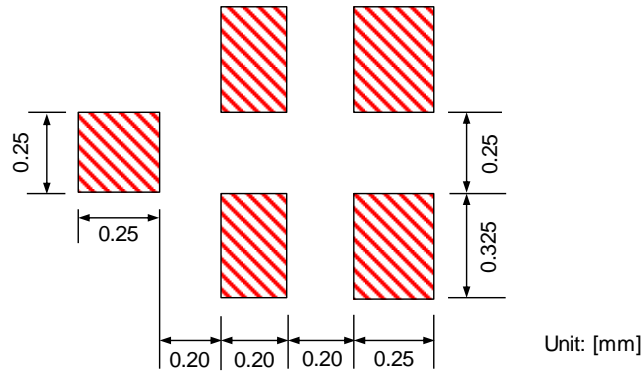
[Terminal Functions]

[Top View]



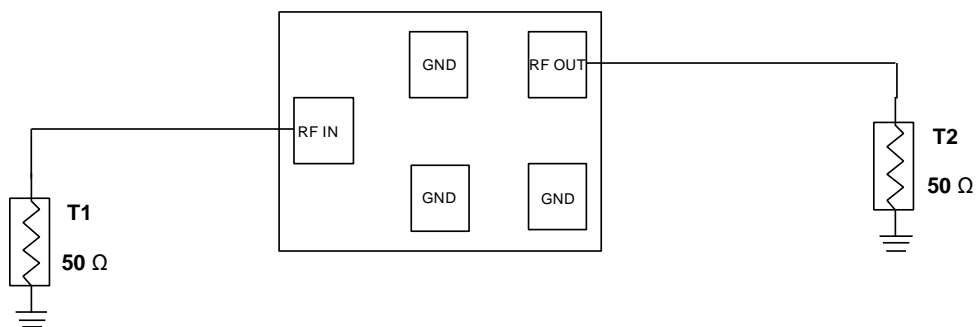
(1)	RF IN	(2)	GND	(3)	GND	(4)	RF OUT	(5)	GND
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[Recommended Land Pattern]



[Measurement Circuit]

Top View

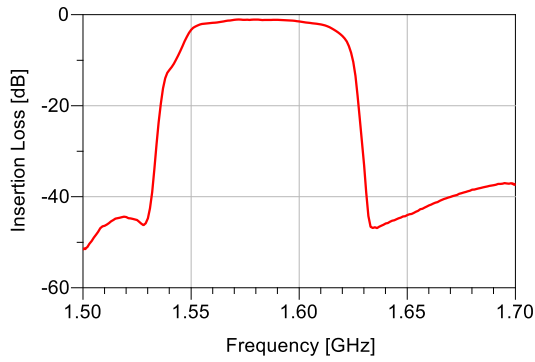


[Electrical Characteristics] (Measurement)

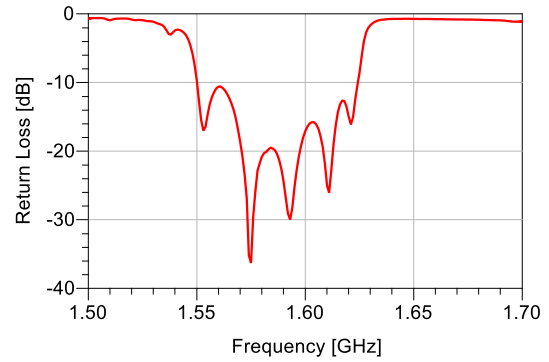
Parameter	Frequency (MHz)	Target Spec		
		Min.	Typ.	Max.
Insertion Loss (dB)	1574.42 to 1576.42	-	1	1.5
	1597.55 to 1605.89	-	1.6	2.1
	1559.05 to 1563.14	-	1.6	2.1
Input Return Loss (dB)	1574.42 to 1576.42	9	14	-
	1597.55 to 1605.89	10	15	-
	1559.05 to 1563.14	10	14	-
Output Return Loss (dB)	1574.42 to 1576.42	9	14	-
	1597.55 to 1605.89	10	15	-
	1559.05 to 1563.14	10	14	-
Ripple Deviation (dB)	1574.42 to 1576.42	-	0.1	0.8
	1597.55 to 1605.89	-	0.4	1.3
	1559.05 to 1563.14	-	0.2	1.3
Group Delay Ripple (ns)	1574.42 to 1576.42	-	1	6
	1597.55 to 1605.89	-	4	12
	1559.05 to 1563.14	-	5	13
Attenuation (dB)	699 to 716	31	34	-
	777 to 787	31	34	-
	814 to 849	30	33	-
	880 to 915	30	33	-
	1427.9 to 1446.9	34	37	-
	1447.9 to 1462.9	35	38	-
	1710 to 1785	32	35	-
	1850 to 1915	32	35	-
	1920 to 1980	32	35	-
	2400 to 2500	33	36	-
2500 to 2570	33	36	-	
Max Input Power (dBm)		15		
Ambient Temperature (°C)		25		
Operating Temperature Range (°C)		-40	-	85
Storage Temperature Range (°C)		-40	-	85

[Frequency Characteristics]

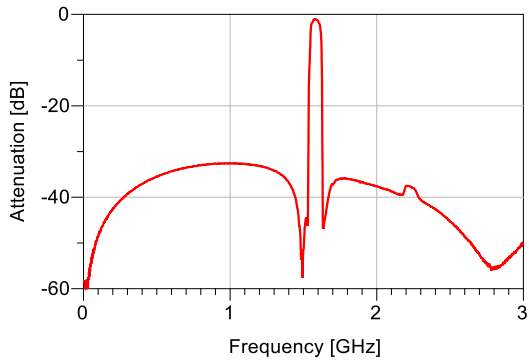
Insertion Loss



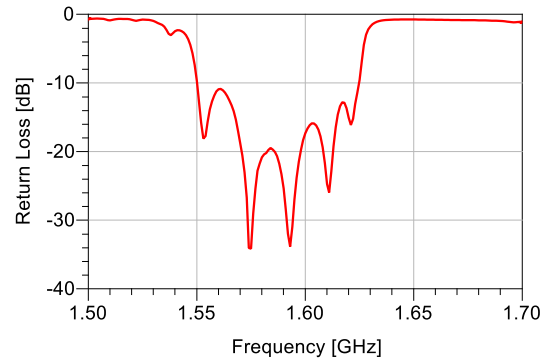
Input Return Loss



Attenuation



Output Return Loss



Group Delay

