



BF2002G

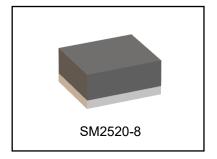
Akoustis product A10256 recommended for new designs (click here)

- Complies with Directive 2002/95/EC (RoHS)
- Moisture Sensitivity Level: 3

Absolute Maximum Ratings

Rating	Value	Units
Maximum Input Power	30	dBm
Maximum DC Voltage Between any Two Terminals	3	V
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +125	°C
Symbolization: G2, YW (Y = year, W = week)		
Case Style: SM2520-8 (2.5 x 2.00 nominal footprint)		

5665 MHz BAW Filter



Electrical Characteristics

Terminating source impedance: $Zs = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$

Parameters Description	Unit	Min.	Тур.	Max.	Note	
Center Frequency	MHz	-	5665	-	-	
Insertion Loss (5490 ~ 5835 MHz)	IL	dB	-	2.3	2.7	(*1)(*2)(*3)
Amplitude Ripple (5490 ~ 5835 MHz	dB	-	0.2	1.2	(*1)(*2)(*3)	
Return Loss (5490 ~ 5835 MHz)			12	19	-	(*1)(*2)(*3)
Attenuation (Reference level from 0 dB)						
30 ~ 2700 MHz		dB	38	44	-	-
3300 ~ 5000 MHz		dB	25	30	-	-
5170 ~ 5330 MHz		dB	33	43	-	-
5950 ~ 6500 MHz		dB	6	23	-	-
6500 ~ 8500 MHz			31	37	-	-

Note:

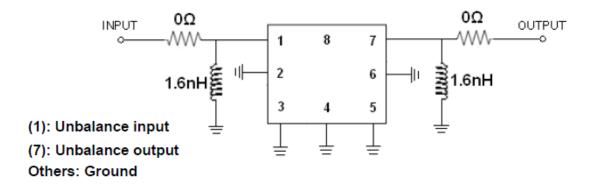
- (*1) The specifications are averaged over specified pass band frequency.
- (*2) The specifications include loss that comes from the test board and connector.
- (*3) The specifications are 25°C only.



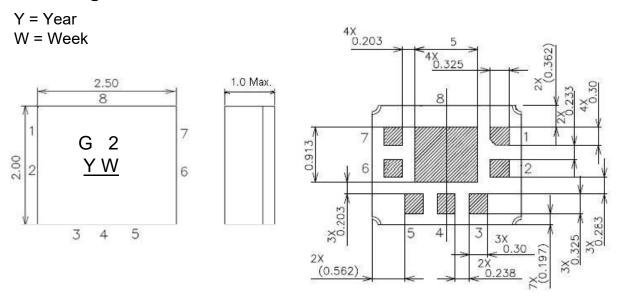
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. **NOTES:**

- 1. The design, manufacturing process, and specifications of this device are subject to change.
- 2. US or International patents may apply.
- 3. This component was always RoHS compliant from the first date of manufacture.

Measurement Circuit



Outline Drawing



All tolerances are +/-0.1 mm unless otherwise specified. Unit: mm

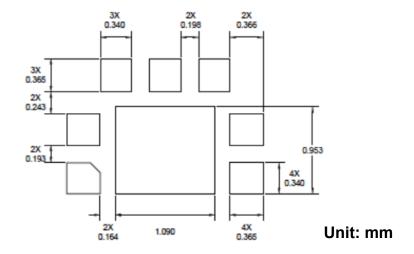
Pin No.	Symbol	Function		
1	IN	Input		
2	GND	Ground		
3	GND	Ground		
4	GND	Ground		
5	GND	Ground		
6	GND	Ground		
7	OUT	Output		
8	GND	Ground		

 \triangle : Year Code (2019 \rightarrow 9, 2020 \rightarrow 0, 2021 \rightarrow 1, 2022 \rightarrow 2, etc...)

: Date Code

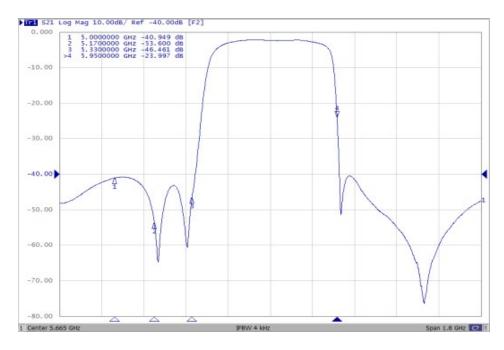
Date Co	Date Code Table											
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	С	D	Е	F	G	Н	Ι	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	Р	Q	R	S	T	U	V	W	Χ	Υ	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	е	f	g	h	i	j	k	I	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	0	р	q	r	S	t	u	٧	W	Х	у	Z

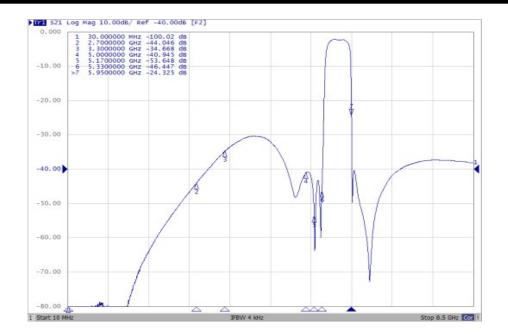
PCB Footprint



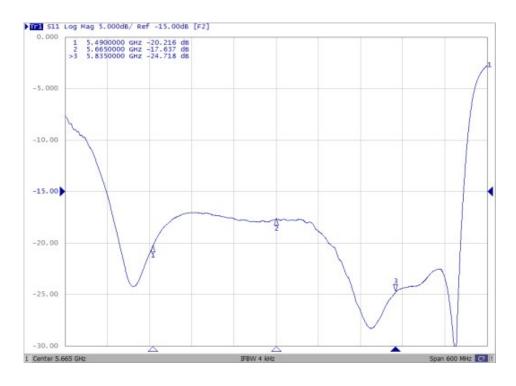
Frequency Characteristics

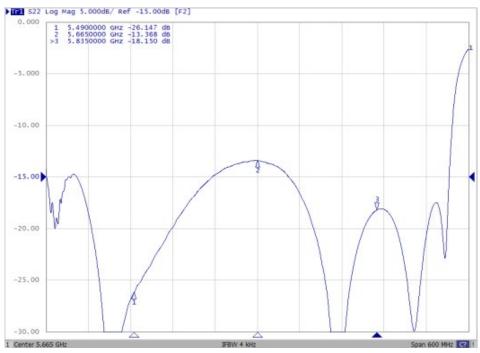






Reflection Functions



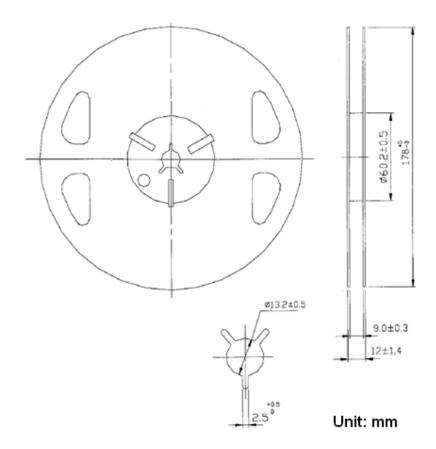


Packing:

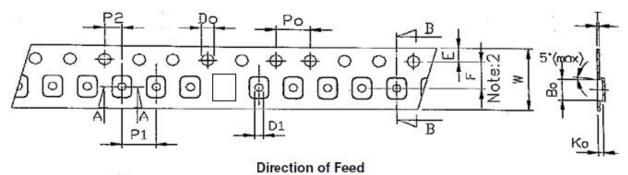
Reel Dimension

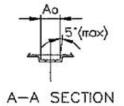
Reel Count: 7" = 2000 13" = 10,000

Tape and Reel Standard per ANSI/EIA-481



Tape Dimension





$$Ao = 2.25 \pm 0.10$$
 mm
 $Bo = 2.75 \pm 0.10$ mm

 $Ko = 1.15 \pm 0.10$ mm

Unit: mm	
Symbol	Spec.
Po	4.0±0.10
P1	4.0±0.10
P2	2.0±0.05
Do	1.50 +0.1
D1	1.10±0.10
E	1.75±0.10
F	3.50±0.05
10Po	40.0±0.20
W	8.0± 0.20
T .	0.25±0.05

Recommended Reflow Profile

Parameter

Max Ramp Up Rate
Soak Temp Time Ts(min) - Ts (max)
Max Soak Time Ts
Liquidous Temp TL
Max Time Above TL
Max Peak Temperature TP
Max Time at Peak TP
Max Ramp Down Rate

Eutectic Sn/Pb

6 Deg C/Second 135 - 155 Deg C 2 minutes 183 Deg C 150 Seconds 225 Deg C 30 Seconds 10 Deg C/Second

Pb Free

6 Deg C/Second 150-200 Deg C 3 minutes 220 Deg C 150 Seconds 260 Deg C 30 Seconds 10 Deg C/Second

