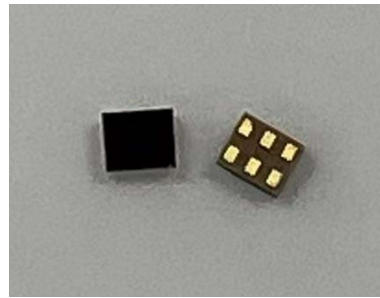


Data Sheet for SAW Components

Band 3+66 DRx
Dual Filter



Product ID: LBB2155A2Z

Date: Aug 22, 2023

Revision: 0.2

Features

- ◆ Package Size : 1.1 x 0.9 x 0.5max mm
- ◆ Single-Ended Input and Output
- ◆ Terminating Impedance : 50 Ω
- ◆ Moisture Sensitivity Level 3
- ◆ ESD Sensitive Device

Electrical Specifications Band 3+66 DRx Dual Filter

Temperature Range for Specification : -30 to +85 °C

Ant to B3 Rx					Min.	Typ.	Max.	Unit
Insertion Loss								
	1805	-	1880	MHz	-	1.7	2.9	dB
Pass Band Ripple								
	1805	-	1880	MHz	-	0.9	2.0	dB
VSWR Ant								
	1805	-	1880	MHz	-	1.7	2.1	-
VSWR Rx								
	1805	-	1880	MHz	-	1.7	2.1	-
Absolute Attenuation								
	1	-	1710	MHz	26	28	-	dB
	95	-	95	MHz	50	98	-	dB
	824	-	849	MHz	35	38	-	dB
	832	-	862	MHz	33	38	-	dB
	880	-	915	MHz	33	36	-	dB
	1615	-	1690	MHz	28	30	-	dB
	1710	-	1785	MHz	35	39	-	dB
	1785	-	1790	MHz	4	39	-	dB
	1920	-	1980	MHz	32	37	-	dB
	1920	-	6000	MHz	28	31	-	dB
	2400	-	2500	MHz	30	32	-	dB
	2500	-	2570	MHz	28	32	-	dB
	3515	-	3610	MHz	37	46	-	dB
	3610	-	3760	MHz	36	43	-	dB
	3760	-	8500	MHz	15	26	-	dB
	4900	-	5950	MHz	28	33	-	dB
	5225	-	5415	MHz	29	34	-	dB
	5415	-	5640	MHz	29	34	-	dB
	7220	-	7520	MHz	25	36	-	dB
	3300	-	4200	MHz	34	39	-	dB
	4400	-	5000	MHz	31	35	-	dB

Electrical Specifications Band 3+66 DRx Dual Filter

Temperature Range for Specification : -30 to +85 °C

Ant to B66 Rx					Min.	Typ.	Max.	Unit
Insertion Loss								
	2110	-	2200	MHz	-	1.7	2.3	dB
Pass Band Ripple								
	2110	-	2200	MHz	-	0.6	1.3	dB
VSWR Ant								
	2110	-	2200	MHz	-	1.5	2.1	-
VSWR Rx								
	2110	-	2200	MHz	-	1.5	2.1	-
Absolute Attenuation								
	10	-	699	MHz	40	57	-	dB
	190	-	190	MHz	50	92	-	dB
	420	-	420	MHz	50	71	-	dB
	699	-	716	MHz	40	56	-	dB
	777	-	787	MHz	40	54	-	dB
	814	-	849	MHz	40	52	-	dB
	880	-	915	MHz	40	50	-	dB
	1710	-	1780	MHz	32	34	-	dB
	1310	-	1360	MHz	35	39	-	dB
	1730	-	1790	MHz	32	35	-	dB
	1852.5	-	1912.5	MHz	34	37	-	dB
	1920	-	1980	MHz	33	36	-	dB
	1910	-	1990	MHz	33	36	-	dB
	2015	-	2090	MHz	1	5.0	-	dB
	2400	-	2500	MHz	32	36	-	dB
	3820	-	3980	MHz	33	44	-	dB
	4030	-	4150	MHz	32	45	-	dB
	4220	-	4400	MHz	31	47	-	dB
	4900	-	5950	MHz	27	46	-	dB
	5530	-	5760	MHz	28	48	-	dB
	5950	-	6130	MHz	27	45	-	dB
	6330	-	6600	MHz	23	42	-	dB

8440	-	8800	MHz	20	39	-	dB
3300	-	4200	MHz	32	40	-	dB
4400	-	5000	MHz	29	49	-	dB

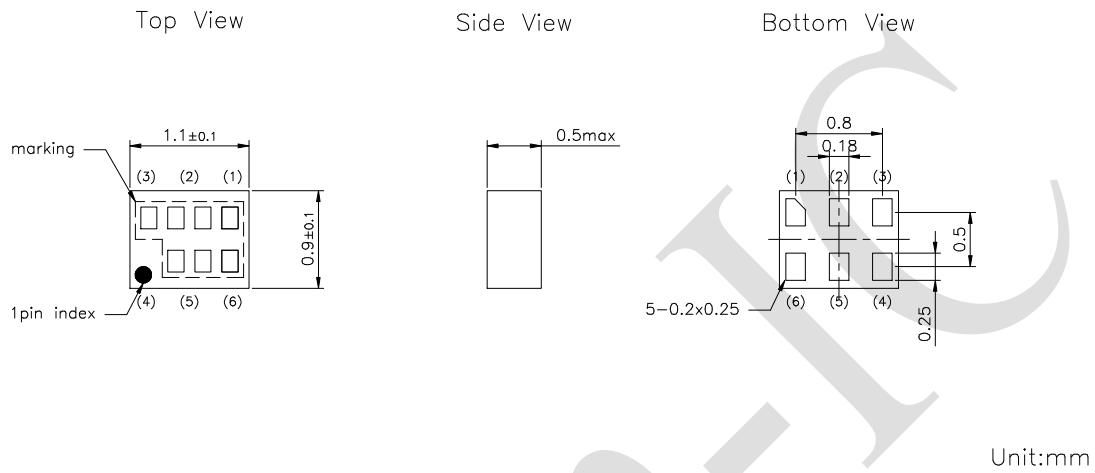
Maximum Ratings

Item	Rating	Condition / Remark
Storage Temperature	-40 to +85 °C	
DC Voltage	5 V	+25 °C
Input power	+15 dBm	LTE , +55 °C , 5000 h

Recommended Operating Conditions

Item	Rating	Condition / Remark
Operating Temperature, T _{CASE}	-30 to +85 °C	

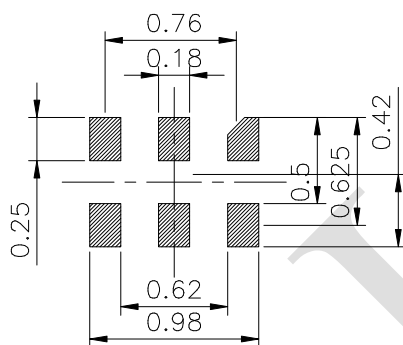
Package Information



Pin Configuration

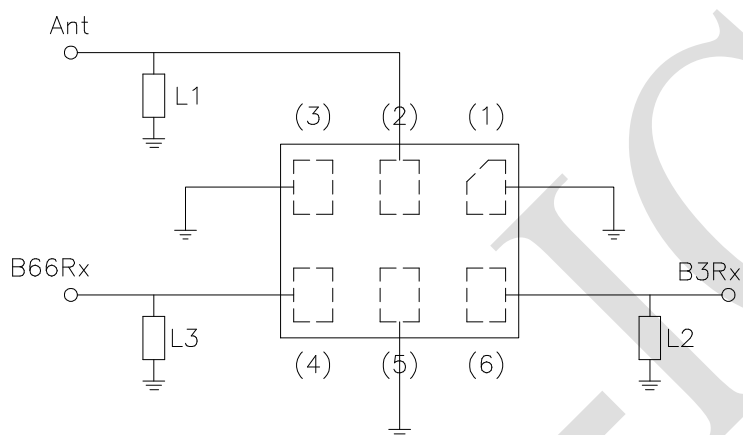
2 : Ant
 6 : B3Rx
 4 : B66Rx
 Other : GND

Land Pattern



Unit:mm

Application Circuit



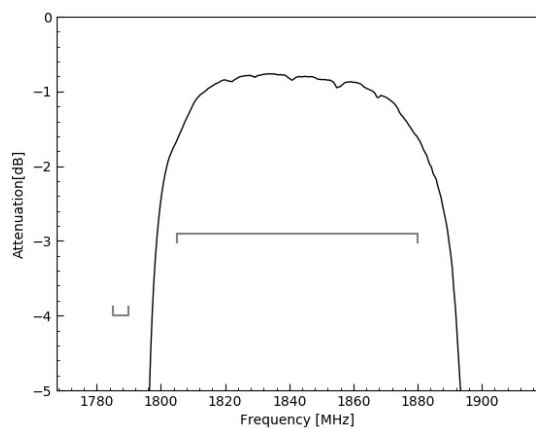
Port	Terminating Z	Matching Component
Ant	50 Ω	L1 : 3.1nH (Ideal inductor)
B3Rx	50 Ω	L 2 : 6.8nH (Ideal inductor)
B66Rx	50 Ω	L 2 : 5.6nH (Ideal inductor)

For ESD protection, external shunt inductor at all ports is recommended.

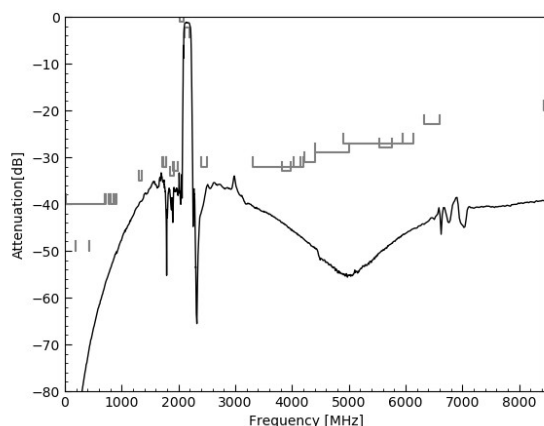
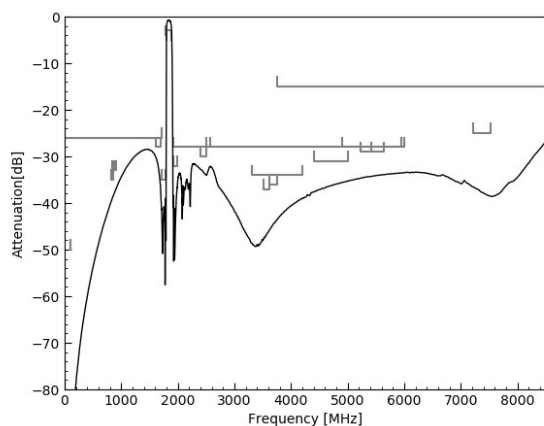
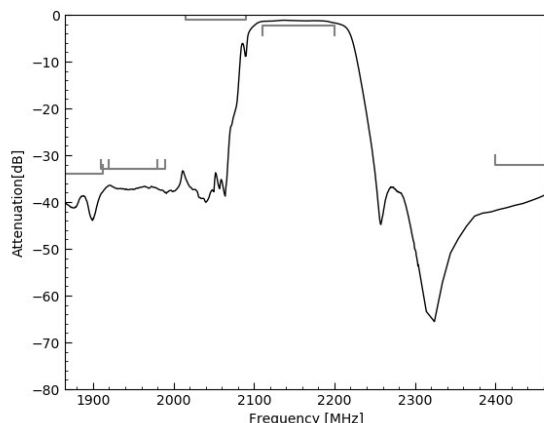
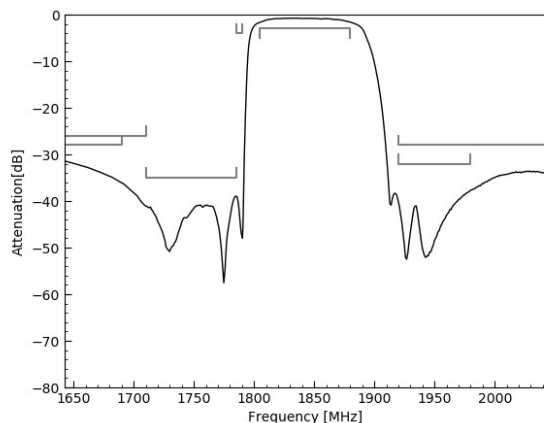
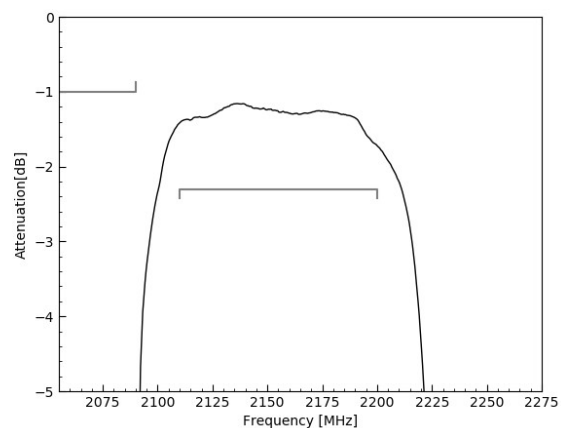
Electrical Characteristics

Band 3+66 DRx Dual Filter

Ant to B3Rx



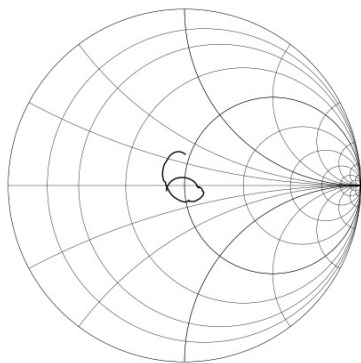
Ant to B66Rx



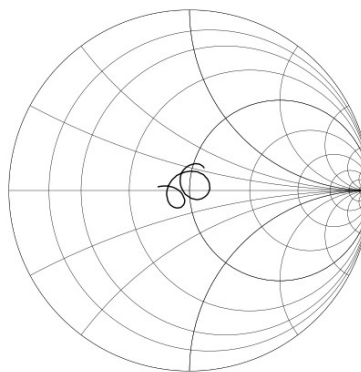
Electrical Characteristics

Band 3+66 DRx Dual Filter

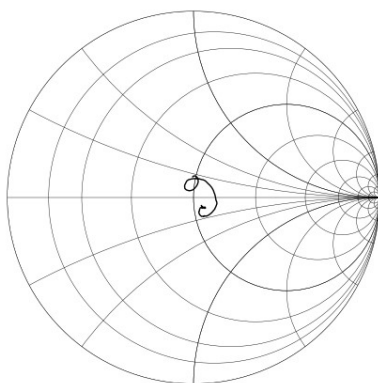
Ant Port Impedance (B3Rx side)



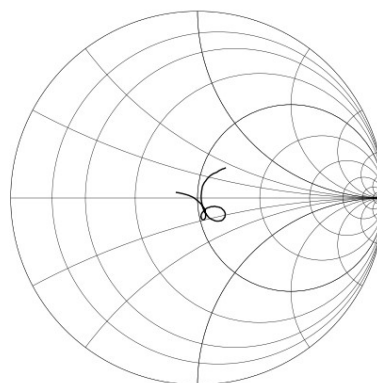
Ant Port Impedance (B66Rx side)



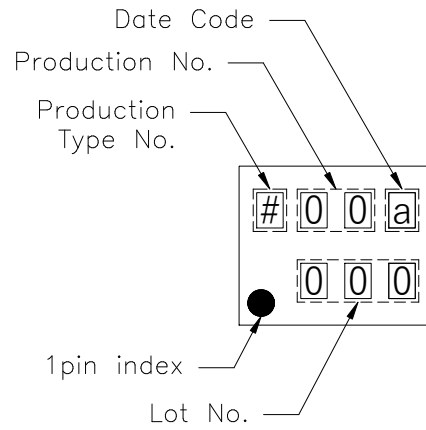
B3Rx Port Impedance



B66Rx Port Impedance



Marking Information



Production type No. (S: Sample, P: Production)

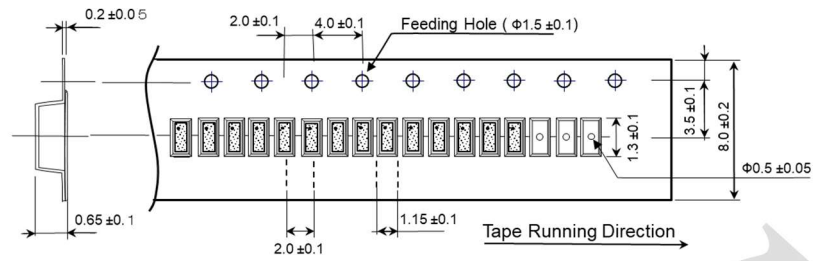
Product No. : 2Z

Lot No. (Indicated by 0 ~ 9 or A to Z and a to z, except I, O, i, o and l)

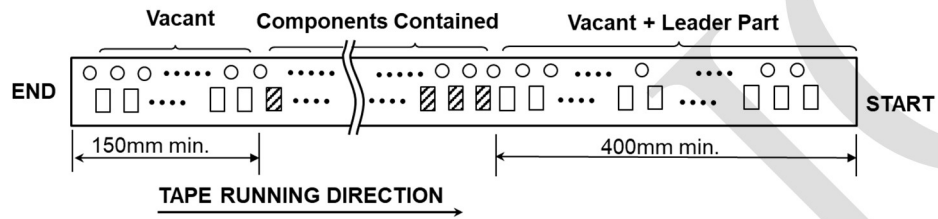
Product date code :

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	a	b	c	d	e	f	g	h	j	k	l	m
2023	n	p	q	r	s	t	u	v	w	x	y	z
2024	A	B	C	D	E	F	G	H	J	K	L	M
2025	N	P	Q	R	S	T	U	V	W	X	Y	Z

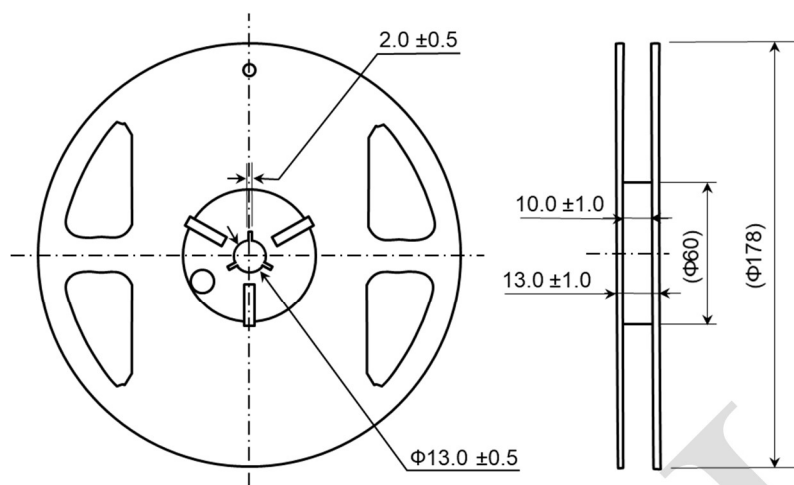
Tape Information



UNIT: mm



Reel Information



Φ178 Reel Dimension

UNIT: mm

Ordering Code

Part Number	Description
LBB2155A2Z-SA	Bulk (few pieces)
LBB2155A2Z-MB	Tape & Reel 3,000 pcs/reel
LBB2155A2Z-MC	Tape & Reel 10,000 pcs/reel
LBB2155A2Z-SZ	EVB

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Revision History

Revision	Date	Description
0.1	Dec. 20, 2022	● Initial release
0.2	Aug. 22, 2023	● Corrected product no.
		●

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