

Data Sheet for

SAW Components

Band 34 + 39

Dual Filter



Product ID: LBB2018D0D

Date: May. 22, 2021

Revision: 1.2

Features

- ◆ Package Size : 1.5 x 1.1 x 0.5max mm
- ◆ Single-Ended Input and Output
- ◆ Terminating Impedance : 50 Ω
- ◆ Moisture Sensitivity Level 3
- ◆ ESD Sensitive Device

Electrical Specifications Band34+39 Dual Filter

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

Input to Output			Min.	Typ.	Max.	Unit
Insertion Loss						
	1880 – 1920	MHz	-	1.4	2.0	dB
	2010 – 2025	MHz	-	1.4	2.0	dB
Pass Band Ripple						
	1880 – 1920	MHz	-	0.4	1.5	dB
	2010 – 2025	MHz	-	0.2	1.0	dB
Rx port VSWR						
	1880 – 1920	MHz	-	1.5	2.0	-
	2010 – 2025	MHz	-	1.2	2.0	-
Ant port VSWR						
	1880 – 1920	MHz	-	1.5	2.0	-
	2010 – 2025	MHz	-	1.2	2.0	-
Absolute Attenuation						
	10 – 1013	MHz	34	42	-	dB
	1000 – 1500	MHz	22	30	-	dB
	1500 – 1795	MHz	22	28	-	dB
	1795 – 1820	MHz	15	32	-	dB
	1820 – 1840	MHz	10	26	-	dB
	1950 – 1990	MHz	2.5	3.5	-	dB
	2045 – 2075	MHz	1.5	2.5	-	dB
	2075 – 2110	MHz	20	24	-	dB
	2110 – 2170	MHz	27	34	-	dB
	2170 – 2500	MHz	25	30	-	dB
	2500 – 4000	MHz	25	31	-	dB
	4000 – 6000	MHz	35	42	-	dB

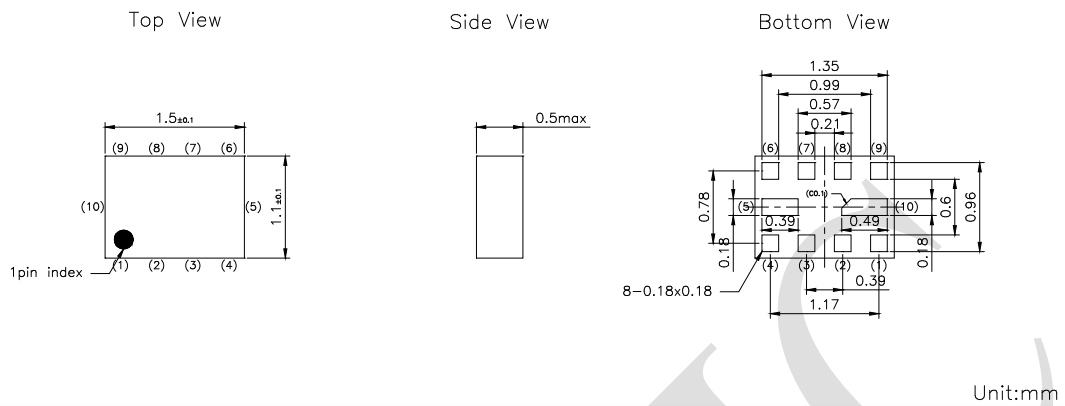
Maximum Ratings

Item	Rating	Condition / Remark
Storage Temperature	-40 to +85 °C	
DC Voltage	5 V	+25 °C
Input power	+30dBm	TD-LTE , +55 °C , 5000 h

Recommended Operating Conditions

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

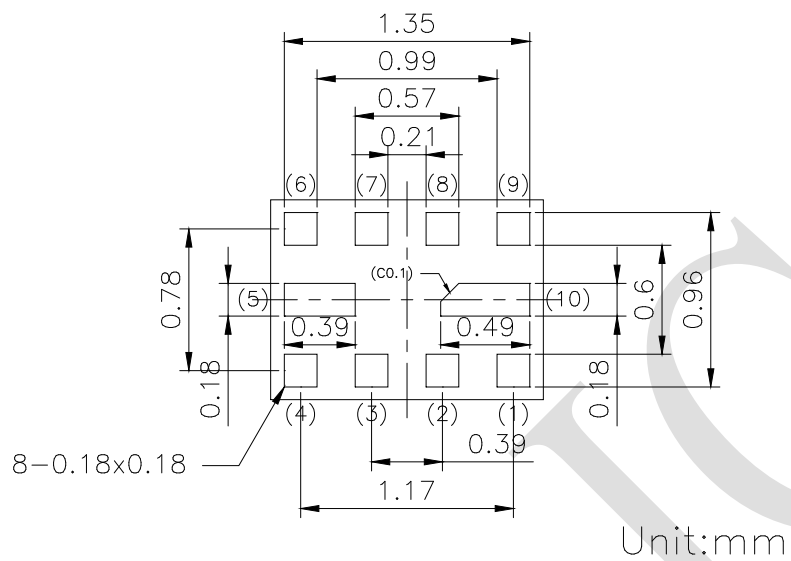
Package Information



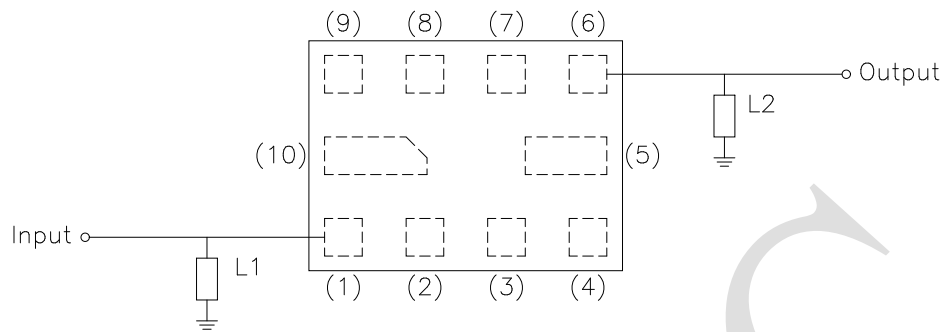
Pin Configuration

- 1 : Input port(PA side)
- 6 : Output port
- Other : GND

Land Pattern



Application Circuit



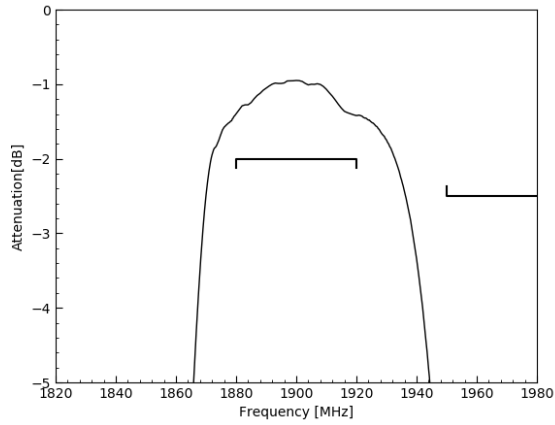
Port	Terminating Z	Matching Component
Input	50 Ω	L1 : 4.3nH (Ideal inductor)
Output	50 Ω	L2 : 3.6nH (Ideal inductor)

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

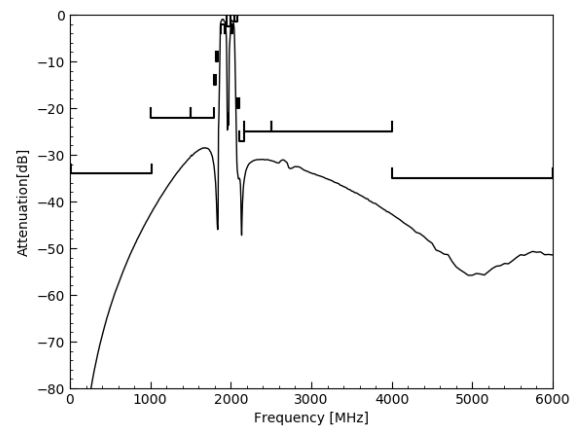
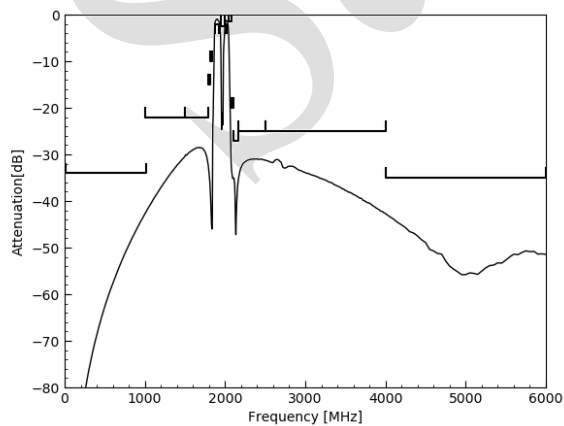
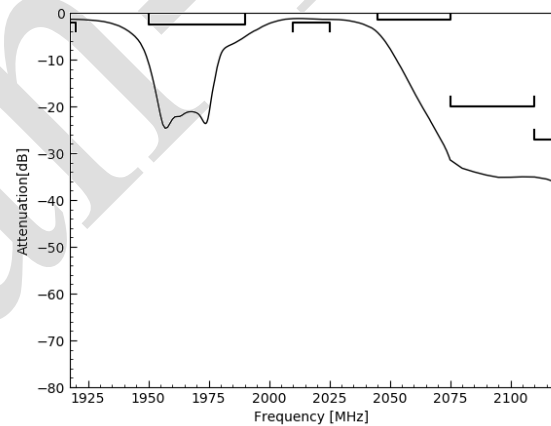
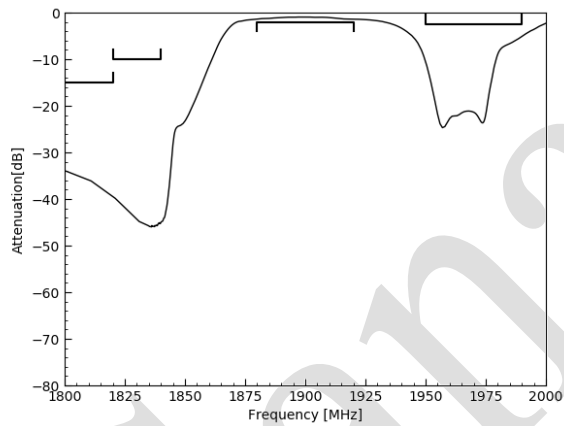
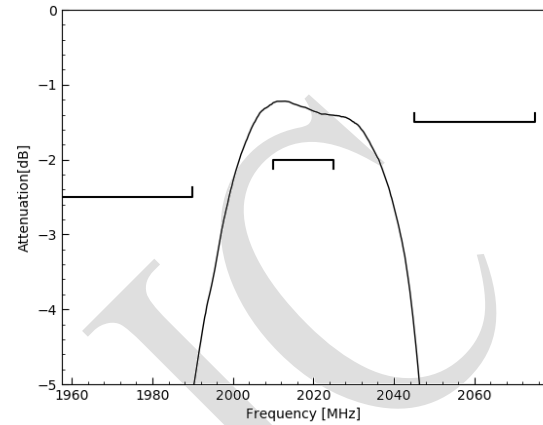
Electrical Characteristics

Band34+39 Dual Filter

Band39 input to output



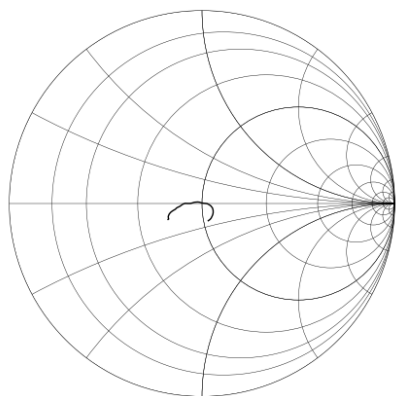
Band34 input to output



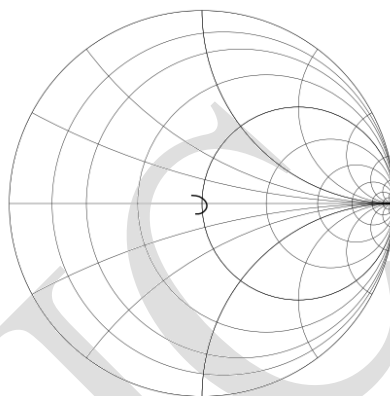
Electrical Characteristics

Band34+39 Dual Filter

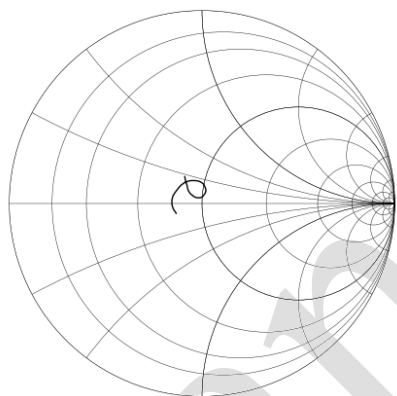
Band39 input port Impedance



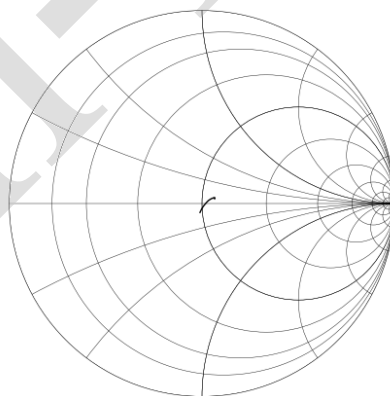
Band34 input port Impedance



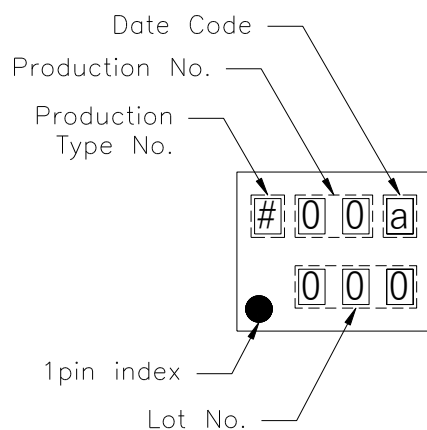
Band39 output port Impedance



Band34 output port Impedance



Marking Information



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

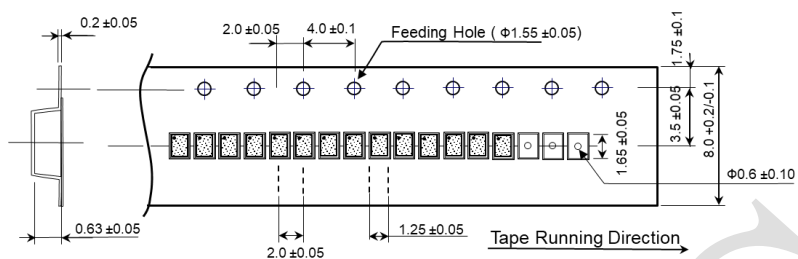
Product No. : 0D

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

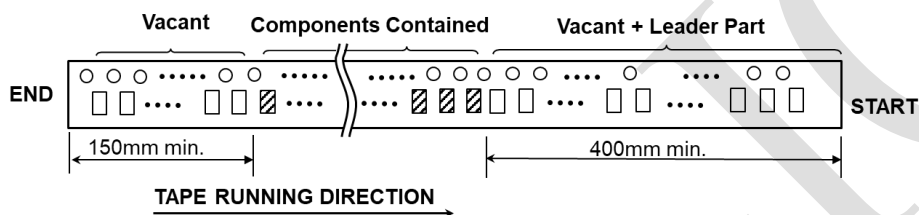
Product date code :

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2020	A	B	C	D	E	F	G	H	J	K	L	M
2021	N	P	Q	R	S	T	U	V	W	X	Y	Z
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

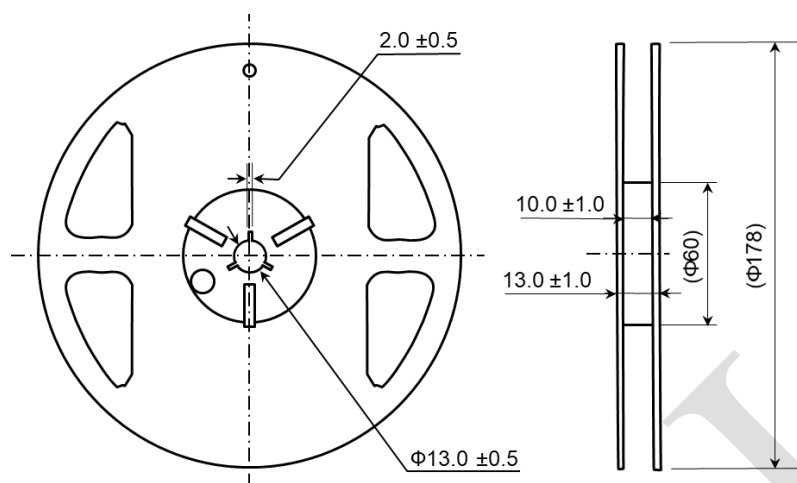
Tape Information



UNIT: mm

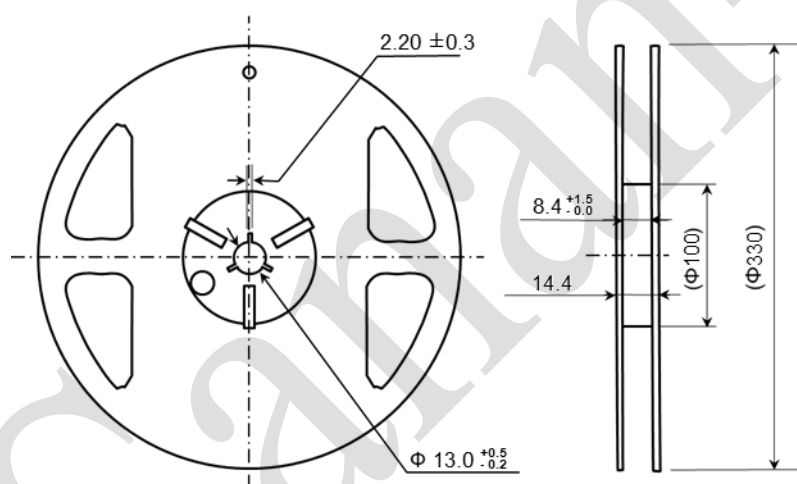


Reel Information



Φ178 Reel Dimension

UNIT: mm



Φ330 Reel Dimension

UNIT: mm

Ordering Code

Part Number	Description
LBB2018D0D-SA	Bulk (few pieces)
LBB2018D0D-MB	Tape & Reel 3,000 pcs/reel
LBB2018D0D-MC	Tape & Reel 10,000 pcs/reel
LBB2018D0D-SZ	EVB

Revision History

Revision	Date	Description
1.0	Nov. 30, 2020	● Initial release
1.1	Dec. 1, 2020	● Update spec
1.2	May. 22, 2021	● Update input power

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