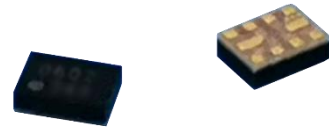


Data Sheet for SAW Components

Band 34 + 39

Dual TRx Filter



Product ID: LBB2018D0Z

Date: Dec. 21, 2020

Revision: 1.0 Preliminary

Features

- ◆ Package Size : 1.5 x 1.1 x 0.5max mm
- ◆ Single-Ended Input and Output: 1in2out / 2in1out
- ◆ Terminating Impedance : 50 Ω
- ◆ Moisture Sensitivity Level 3
- ◆ ESD Sensitive Device

Electrical Specifications Band34+39 Dual Tx Filter

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

B34 Tx			Min.	Typ.	Max.	Unit
Insertion Loss						
	2010 – 2025	MHz	-	1.4	1.9	dB
Pass Band Ripple						
	2010 – 2025	MHz	-	0.4	1.0	dB
VSWR Common Port						
	2010 – 2025	MHz	-	1.3	2.0	-
VSWR B34 Port						
	2010 – 2025	MHz	-	1.3	2.0	-
Absolute Attenuation						
	869 – 894	MHz	35	46	-	dB
	925 – 960	MHz	35	44	-	dB
	1554.7 – 1610.8	MHz	30	33	-	dB
	1805 – 1850	MHz	30	32	-	dB
	2110 – 2170	MHz	38	43	-	dB
	2400 – 2500	MHz	30	34	-	dB
	2496 – 2690	MHz	30	35	-	dB
	4020 – 4050	MHz	20	43	-	dB
	6030 – 6075	MHz	15	21	-	dB

Electrical Specifications Band34+39 Dual Tx Filter

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

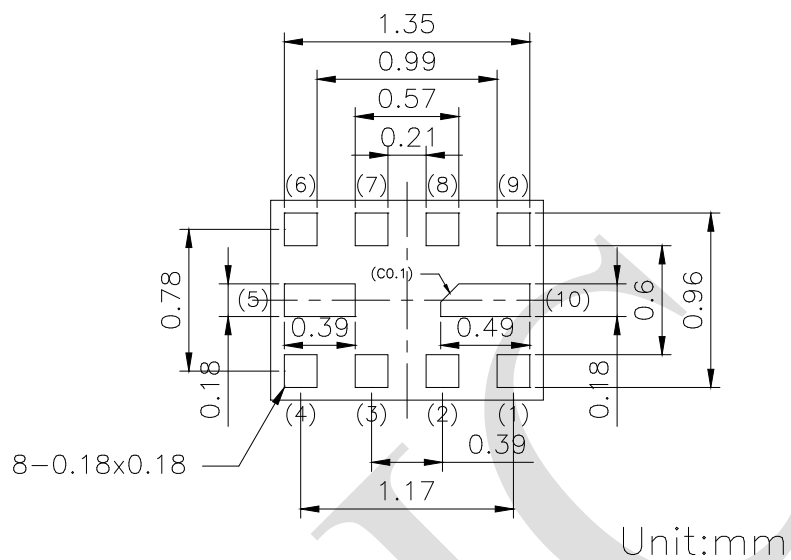
B39 Tx		Min.	Typ.	Max.	Unit
Insertion Loss					
	1880 – 1920 MHz	-	1.4	2.0	dB
Pass Band Ripple					
	1880 – 1920 MHz	-	0.5	1.5	dB
VSWR Common Port					
	1880 – 1920 MHz	-	1.4	2.0	-
VSWR B39 Port					
	1880 – 1920 MHz	-	1.4	2.0	-
Absolute Attenuation					
	869 – 894 MHz	35	44	-	dB
	925 – 960 MHz	35	43	-	dB
	1554.7 – 1610.8 MHz	32	39	-	dB
	1805 – 1850 MHz	30	35	-	dB
	1850 – 1860 MHz	1	30	-	dB
	2110 – 2170 MHz	40	44	-	dB
	2400 – 2500 MHz	35	45	-	dB
	2496 – 2690 MHz	35	41	-	dB
	3760 – 3840 MHz	25	28	-	dB
	5640 – 5760 MHz	20	31	-	dB

Maximum Ratings

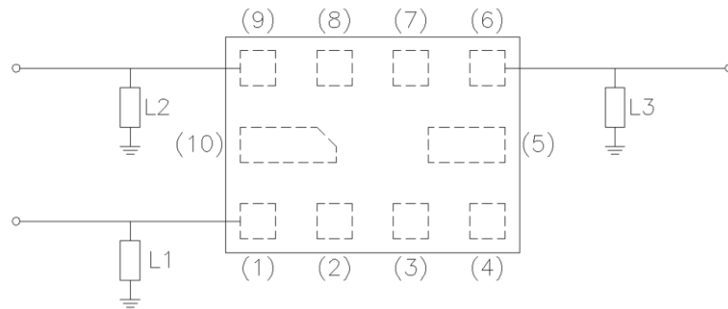
Item	Rating	Condition / Remark
Storage Temperature	-40 to +85 °C	
DC Voltage	5 V	+25 °C
Input power	+30 dBm	TD-LTE , +55 °C , 5000 h

Recommended Operating Conditions

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



Application Circuit



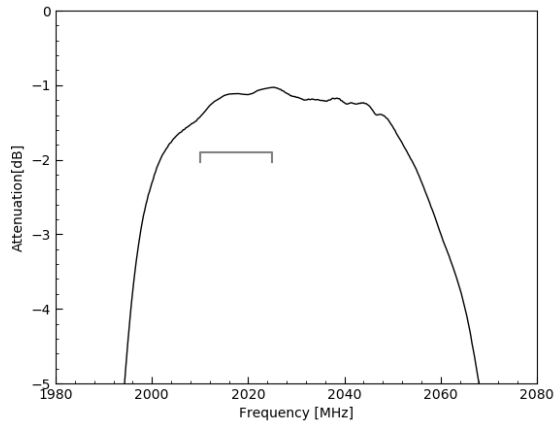
Port	Terminating Z	Matching Component
Port1	50 Ω	L1 : 3.3nH (Ideal inductor)
Port2	50 Ω	L2 : 11nH (Ideal inductor)
Port3	50 Ω	L3 : 11nH (Ideal inductor)

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

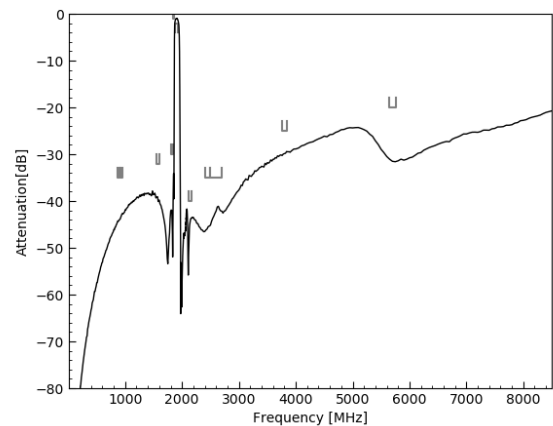
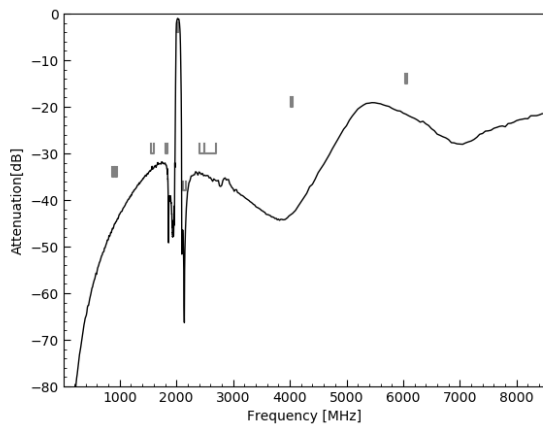
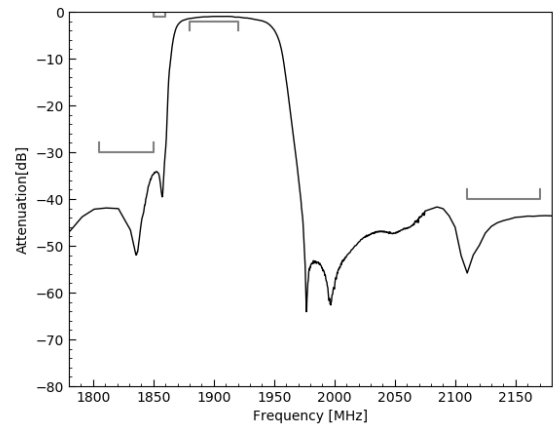
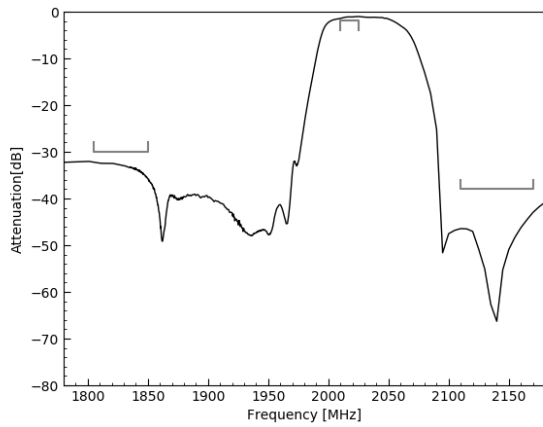
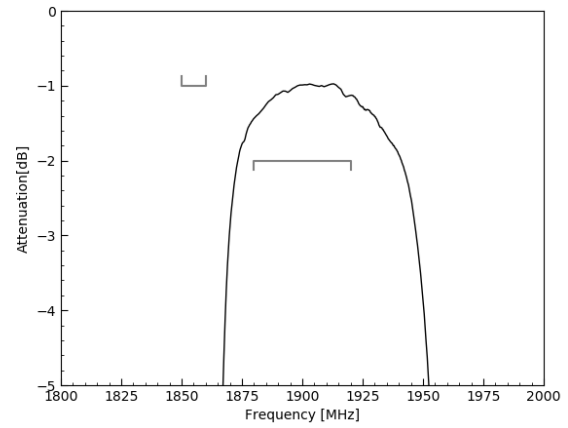
Electrical Characteristics

Band34+39 Dual TRx Filter

Common to Band34



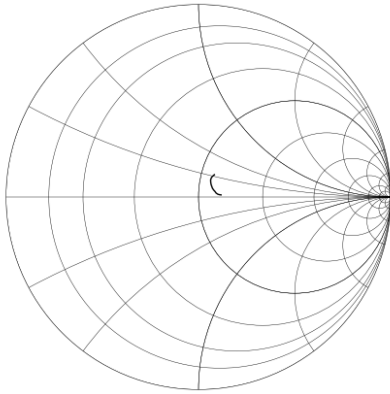
Common to Band39



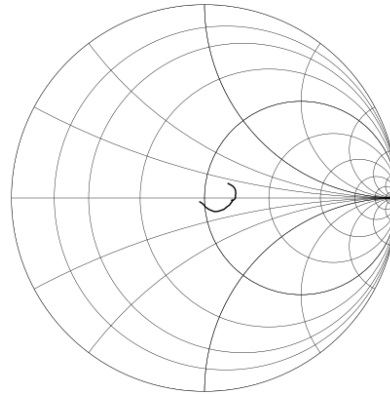
Electrical Characteristics

Band34+39 Dual Tx Filter

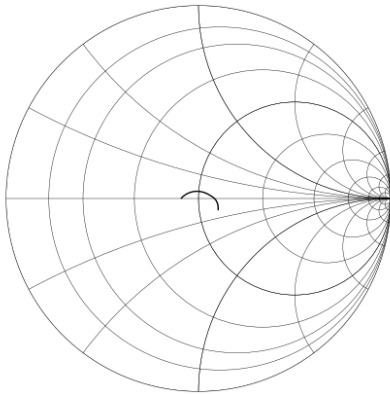
Band34 Port1



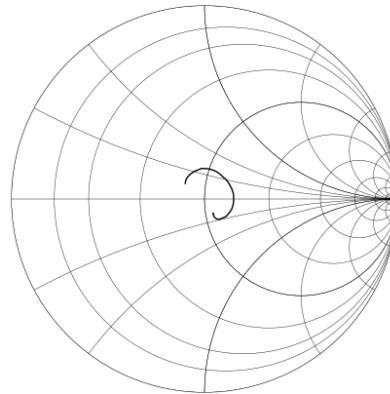
Band39 Port1



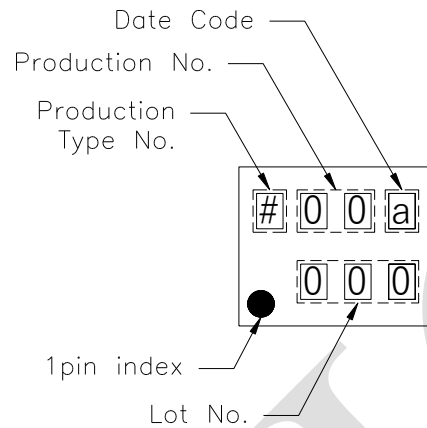
Band34 Port2



Band39 Port3



Marking Information



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

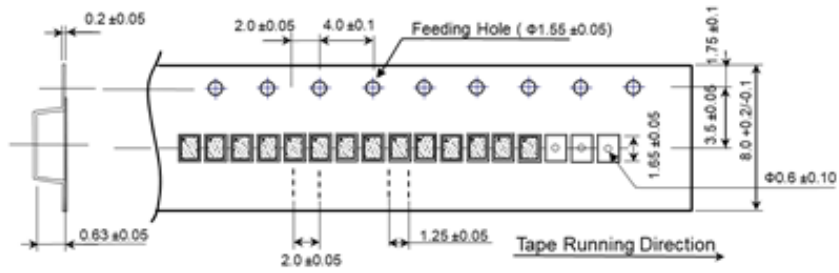
Product No. : 0Z

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

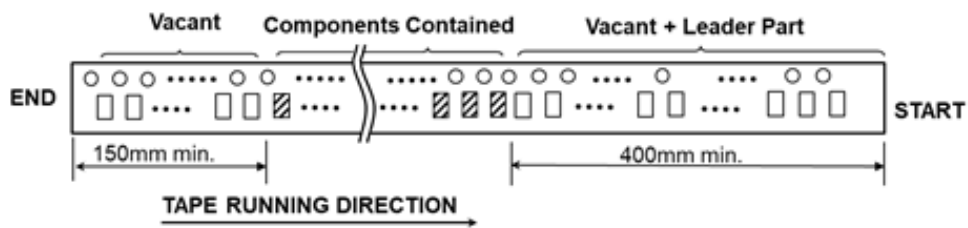
Product date code :

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

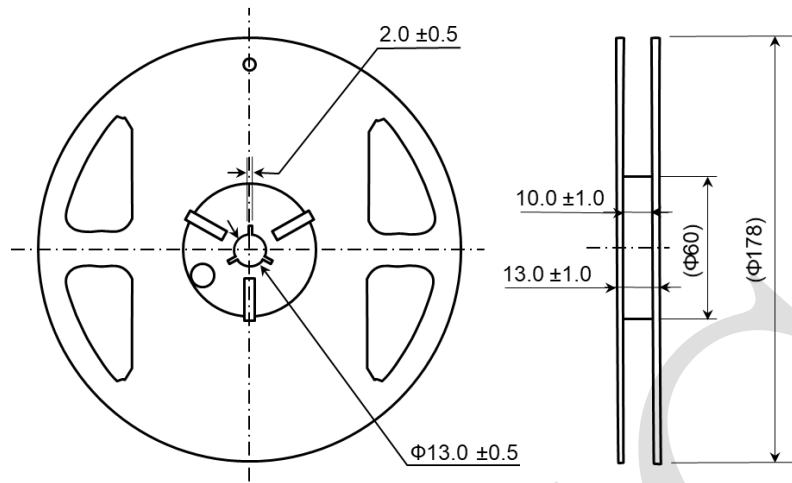
Tape Information



UNIT: mm

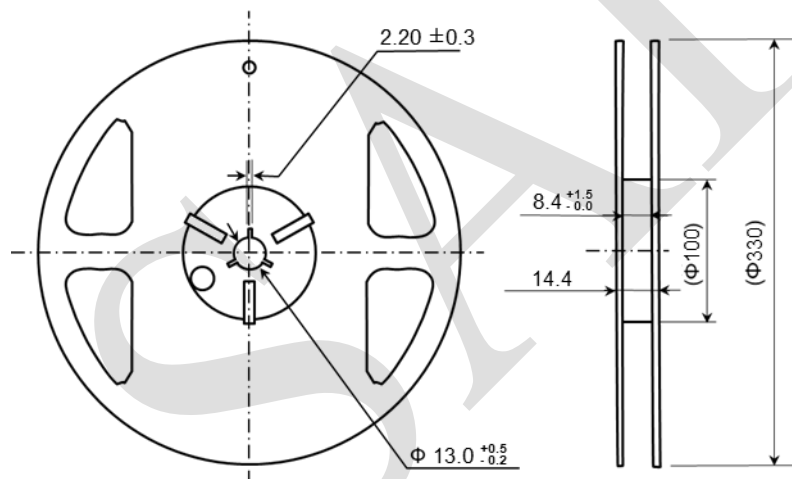


Reel Information



$\Phi 178$ Reel Dimension

UNIT: mm



$\Phi 330$ Reel Dimension

UNIT: mm

Ordering Code

Part Number	Description
LBB2018D0Z-SA	Bulk (few pieces)
LBB2018D0Z-MB	Tape & Reel 3,000 pcs/reel
LBB2018D0Z-MC	Tape & Reel 10,000 pcs/reel
LBB2018D0Z-SZ	EVB

SALIC

Revision History

Revision	Date	Description
1.0	Dec. 21, 2020	● Initial release *For internal use only
		●

SALIC

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