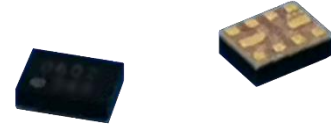


Data Sheet for

SAW Components

Band 34 + 39

Dual TRx Filter



Product ID: LBB2018D0Z

Date: Feb. 20, 2023

Revision: 1.1

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

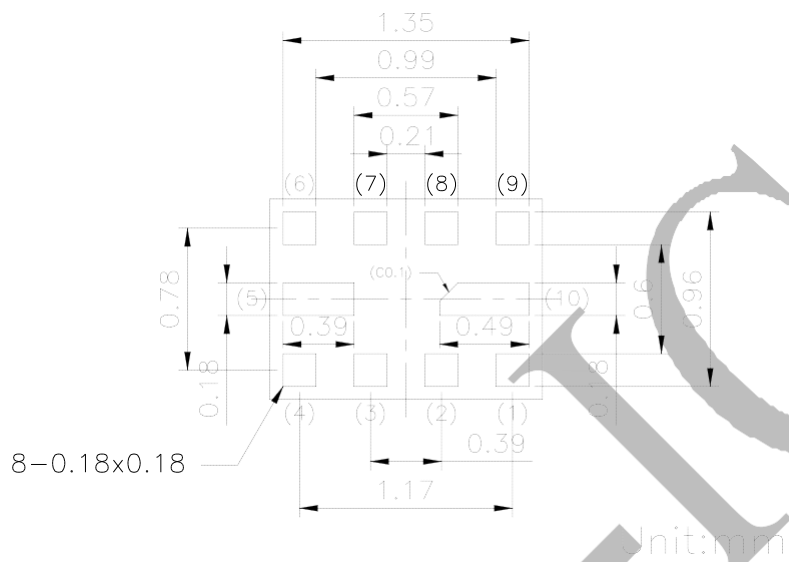
Maximum Ratings

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

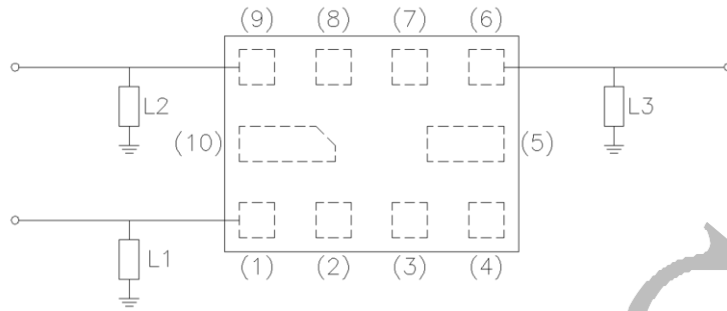
Recommended Operating Conditions

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

Land Pattern



Application Circuit



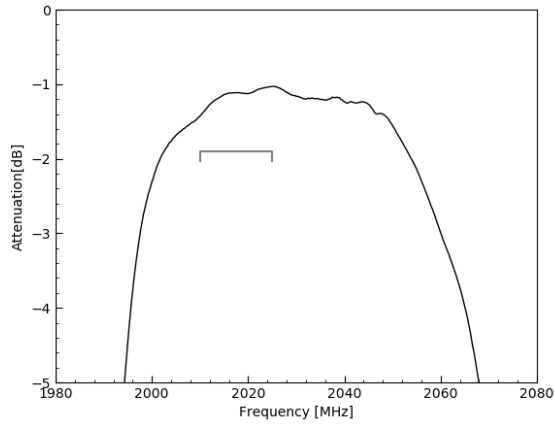
Port	Terminating Z	Matching Component
Port1	50 Ω	L1 : 3.3nH (Ideal inductor)
Port2	50 Ω	L2 : 11nH (Ideal inductor)
Port3	50 Ω	L3 : 11nH (Ideal inductor)

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

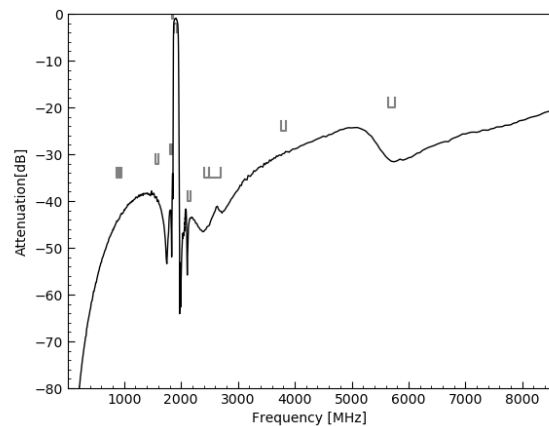
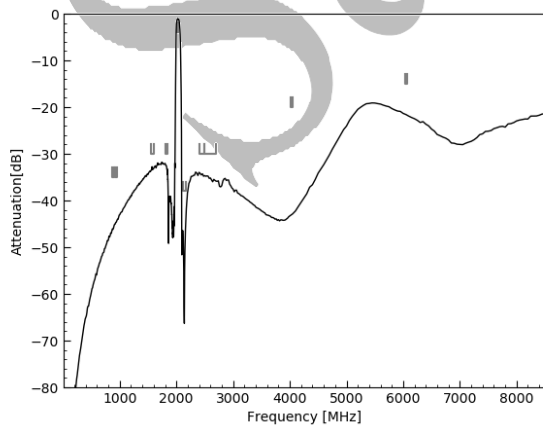
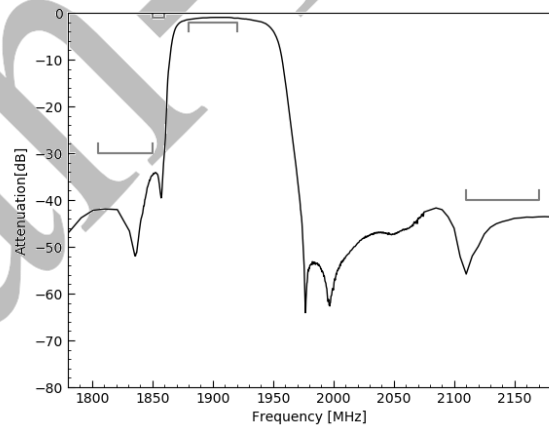
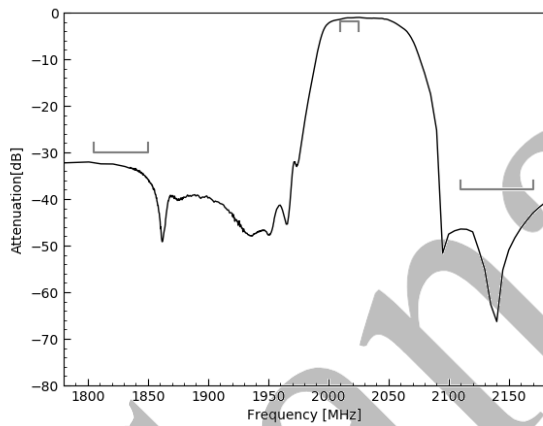
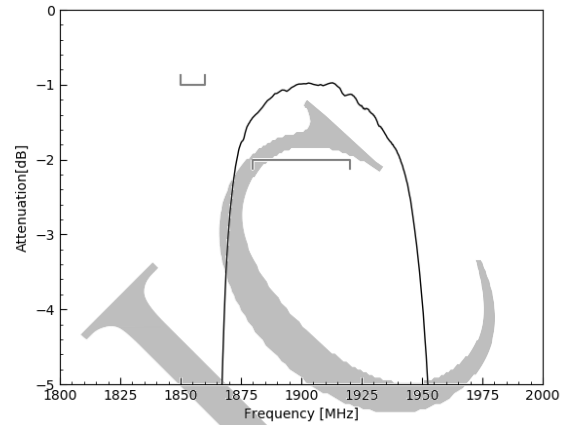
Electrical Characteristics

Band34+39 Dual TRx Filter

Common to Band34



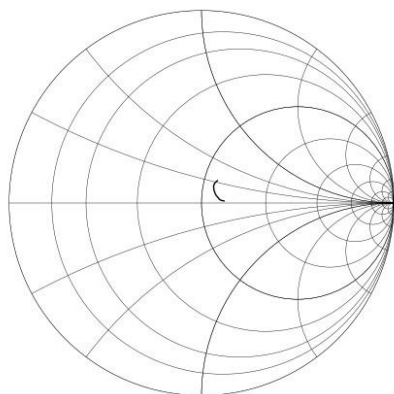
Common to Band39



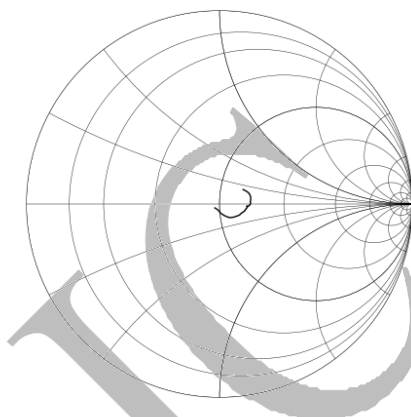
Electrical Characteristics

Band34+39 Dual Tx Filter

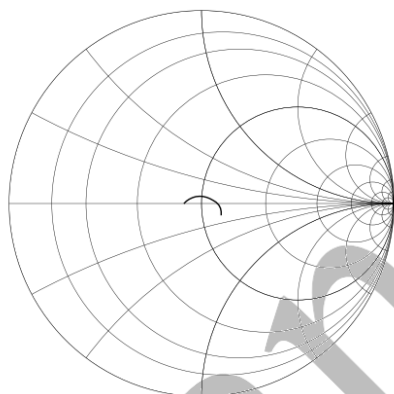
Band34 Port1



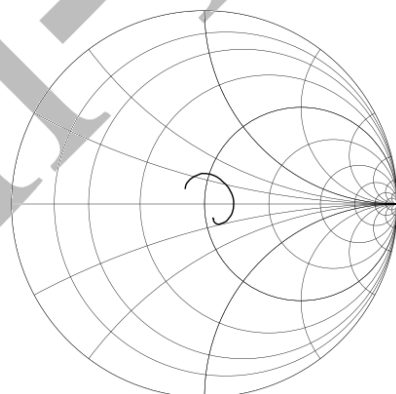
Band39 Port1



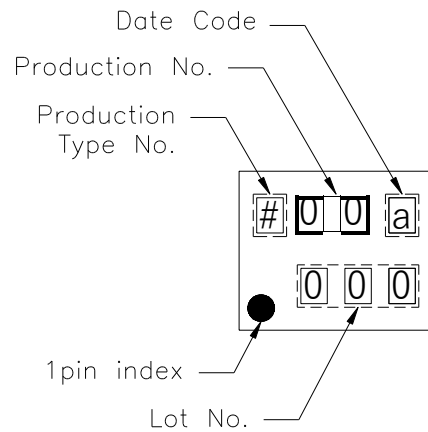
Band34 Port2



Band39 Port3



Marking Information



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

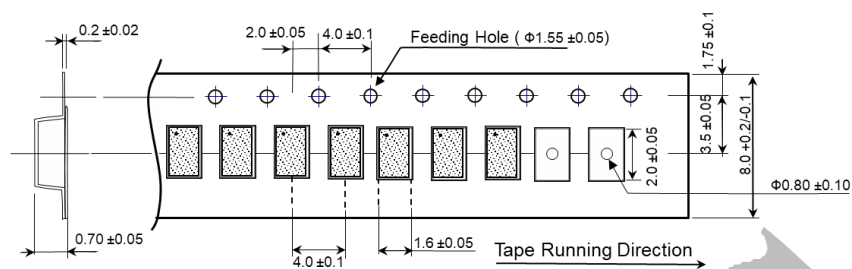
Product No. : 0Z

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

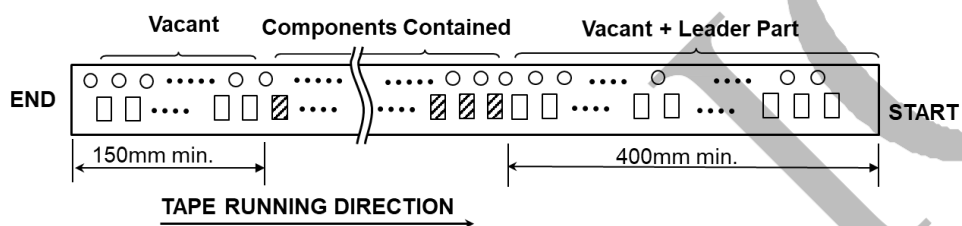
Product date code :

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

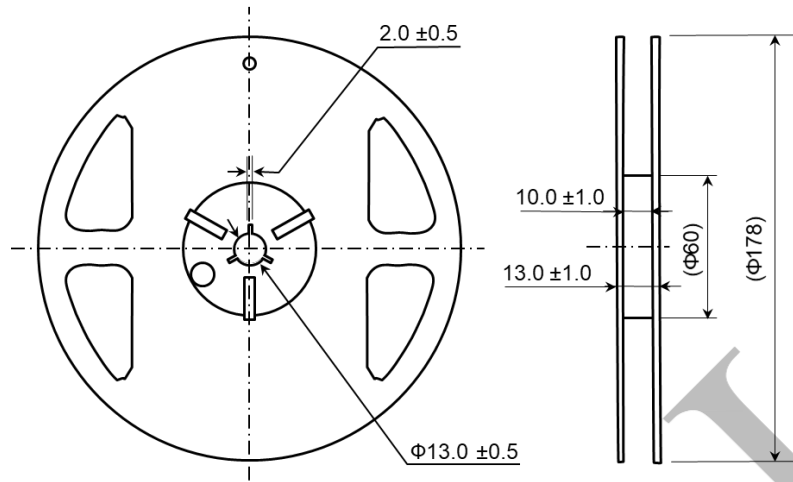
Tape Information



UNIT: mm

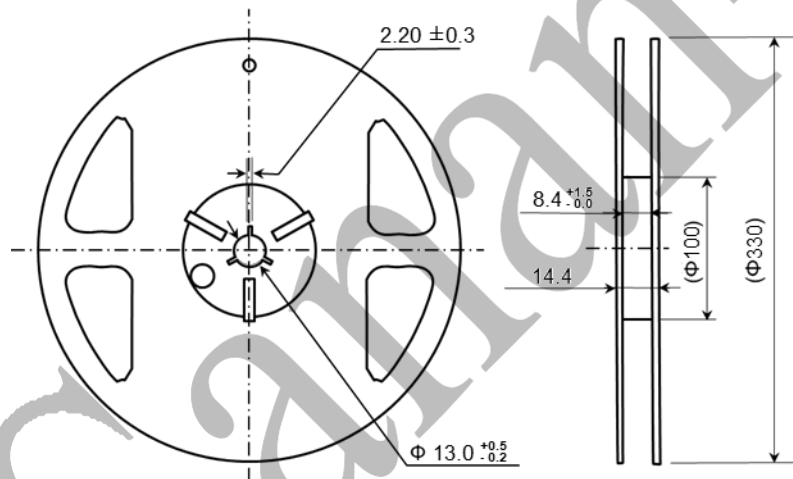


Reel Information



$\Phi 178$ 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

Sanan-IC

Revision History

Revision	Date	Description
1.0	Dec. 21, 2020	• Initial release
1.1	Feb. 20, 2023	• MP

Sanan-IC

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