



DATASHEET

-Preliminary-

Surface Acoustic Wave Filter

- **Application : LTE BAND28 (B Block)**
- **Model : SFX733BYJ02**
- **Center Frequency : 733.0 [MHz]**



WISOL CO., LTD.

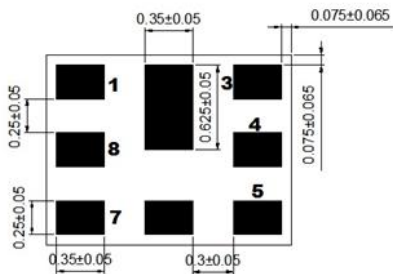
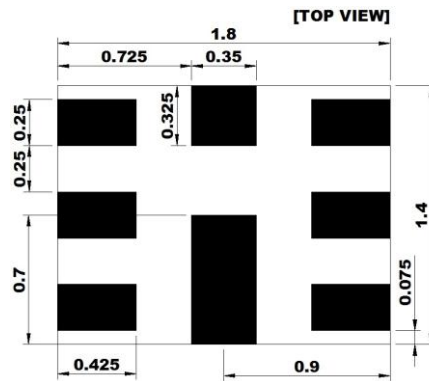
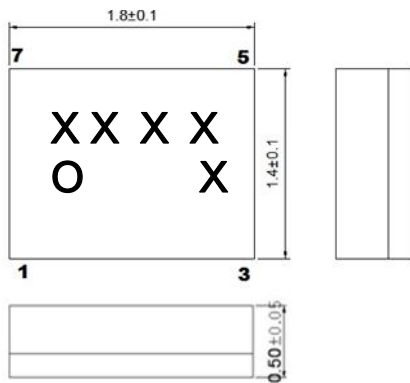
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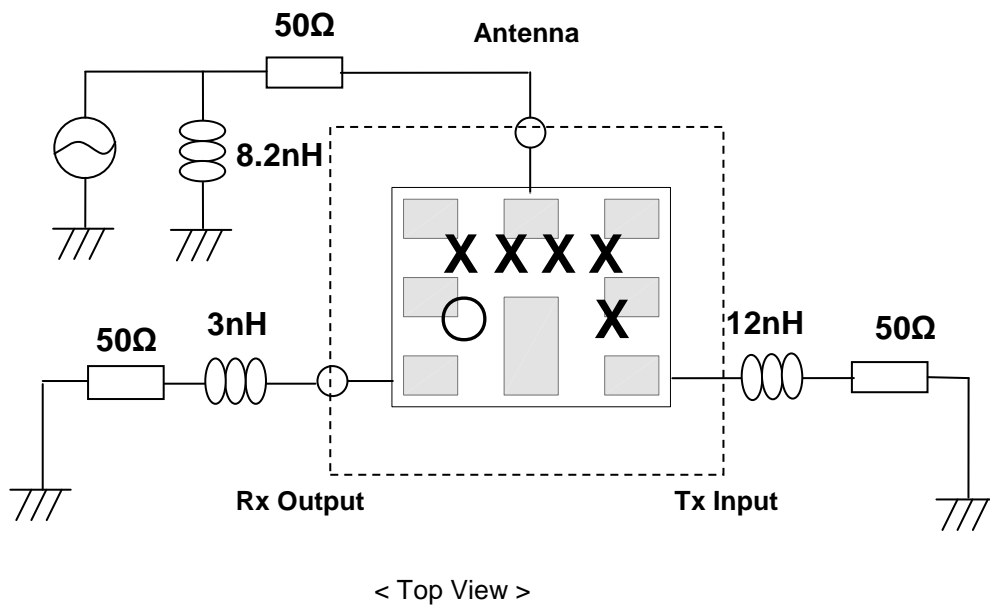
1. OUTLINE DRAWING & RECOMMENDED PCB

[Unit: mm]



No.	Function
1	Rx Output
3	Tx Input
6	Antenna
2, 4, 5, 7, 8	GND

2. TEST FIXTURE



3. PERFORMANCE

3-1. MAXIMUM RATINGS

CHARACTERISTICS	RATINGS	UNITS
DC Permissive Voltage	5	V
Maximum Input Power	0.8	W
Operating Temperature Range	- 30 ~ + 85	°C
Storage Temperature Range	- 40 ~ + 85	°C

3-2. ELECTRICAL CHARACTERISTICS

3-2-1. TABLE

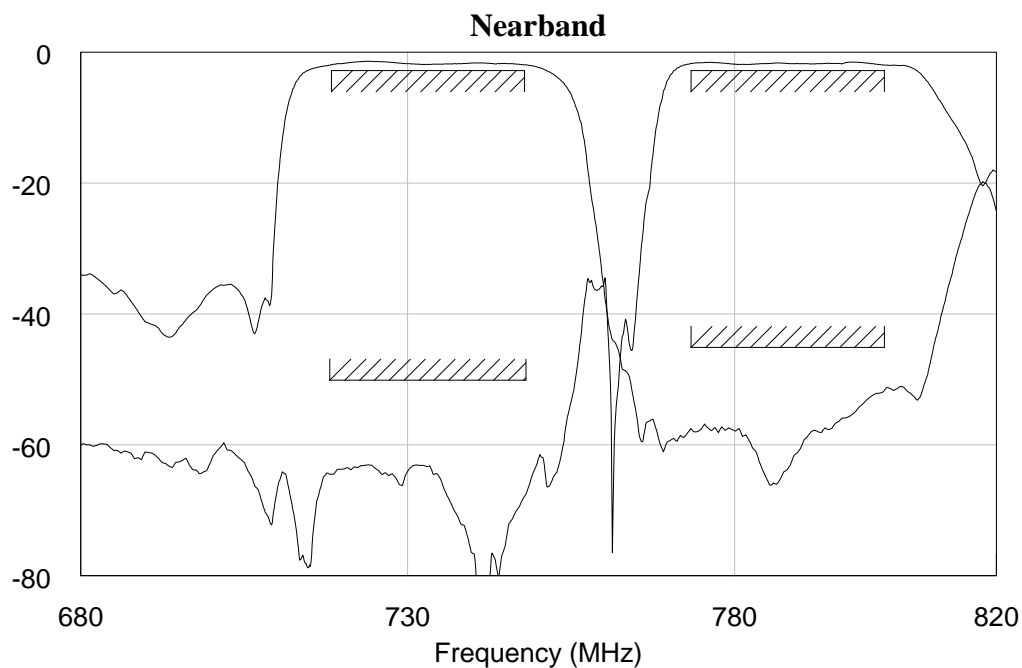
Ta = - 30 ~ + 85 °C

Item	CONDITION [MHz]	UNIT	RATING		
			Min.	Typ.(25°C)	Max.
TX → ANTENNA					
Insertion Loss	718.24~ 747.76	dB	-	1.9	2.7
Inband Ripple	718.24~ 747.76	dB	-	0.6	1.6
VSWR	718~ 748	-	-	1.8	2.2
Absolute Attenuation	0.1~680	dB	25	29	-
	773.24~802.76	dB	45	51	-
	1436~1496	dB	35	42	-
	1565.42~1573.374	dB	35	40	-
	1573.374~1577.466	dB	35	40	-
	1577.466~1585.42	dB	35	40	-
	1597.55~1605.89	dB	35	40	-
	1830~1880	dB	30	36	-
	2154~2244	dB	27	34	-
	2400~2500	dB	26	32	-
	2872~2992	dB	20	29	-
	3590~3740	dB	20	29	-
	4308~4488	dB	20	38	-
5026~5850	dB	15	29	-	
Termination Impedance : INPUT / ANTENNA			50Ω + 12[nH] /50Ω // 8.2[nH]		
ANTENNA → RX					
Insertion Loss	773.24~802.76	dB	-	1.9	2.7
Inband Ripple	773.24~802.76	dB	-	0.4	1.6
VSWR	773~803	-	-	2.0	2.3

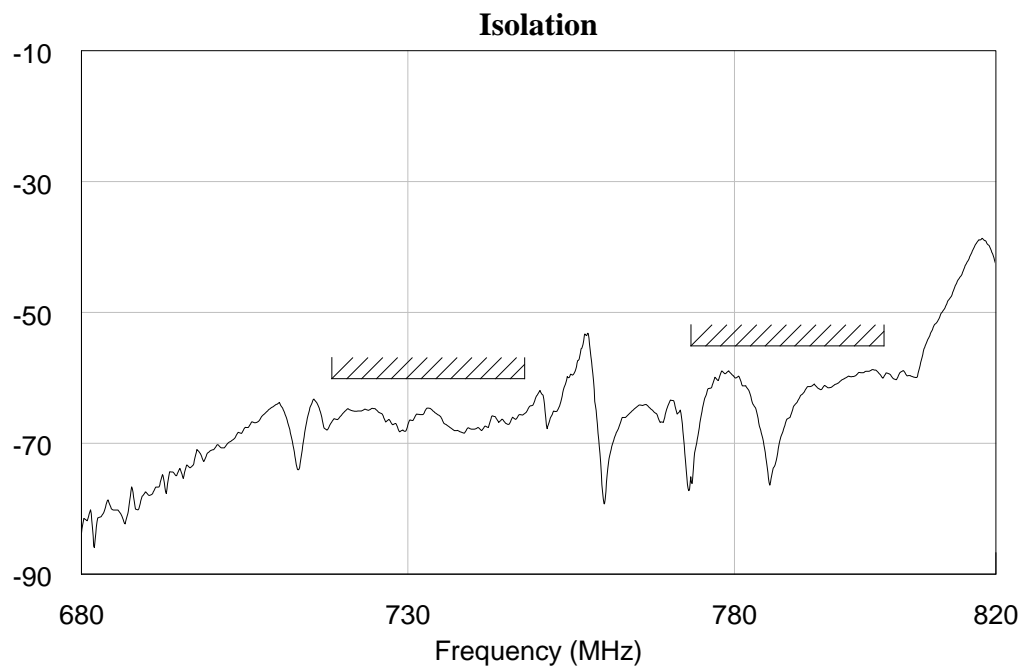
Absolute Attenuation	1~718	dB	40	55	-
	718~ 748	dB	50	62	-
	1710~1785	dB	40	62	-
	1850~1920	dB	40	61	-
	1920~2400	dB	40	56	-
	2400~2500	dB	40	56	-
	2484~2775	dB	40	56	-
	2775~2880	dB	40	56	-
	2880~6000	dB	30	44	-
Termination Impedance : ANT / OUTPUT			50Ω // 8.2[nH] /50Ω + 3[nH]		
TX → RX					
Isolation between Rx and Tx	718.24~ 747.76	dB	60	64	-
	773.24~802.76	dB	55	58	-

3-2-2. GRAPH

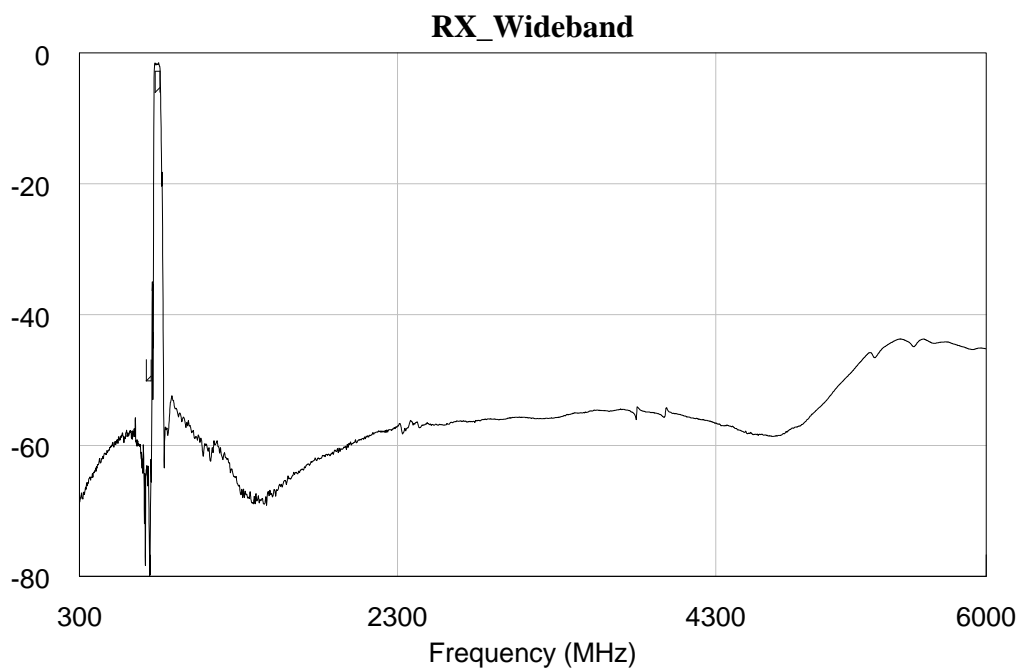
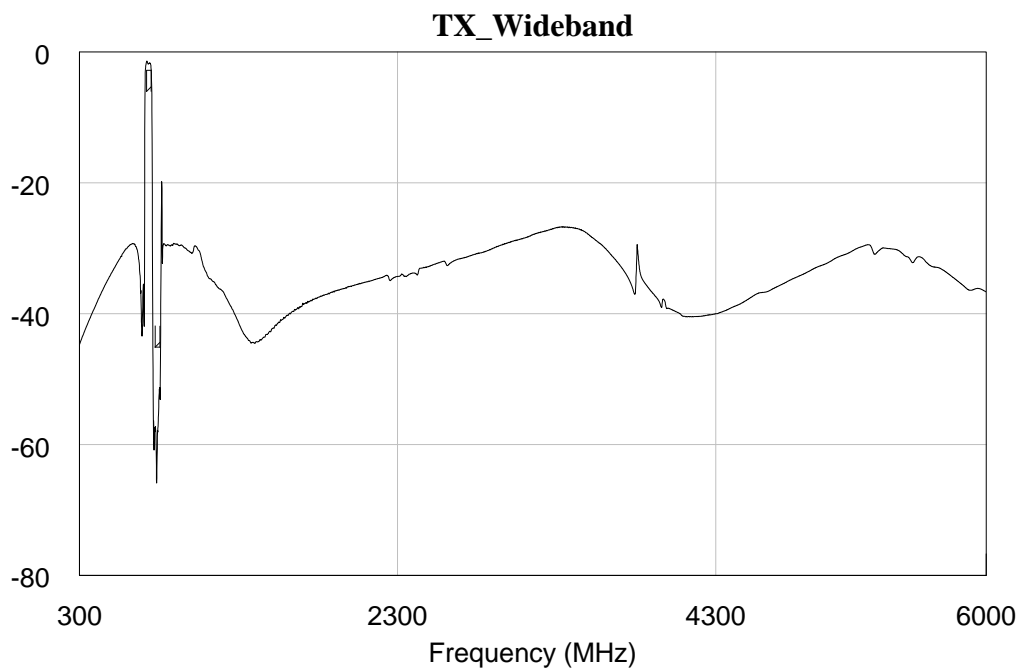
3-2-2-1. Tx→Ant, Ant→Rx Transmission Characteristics



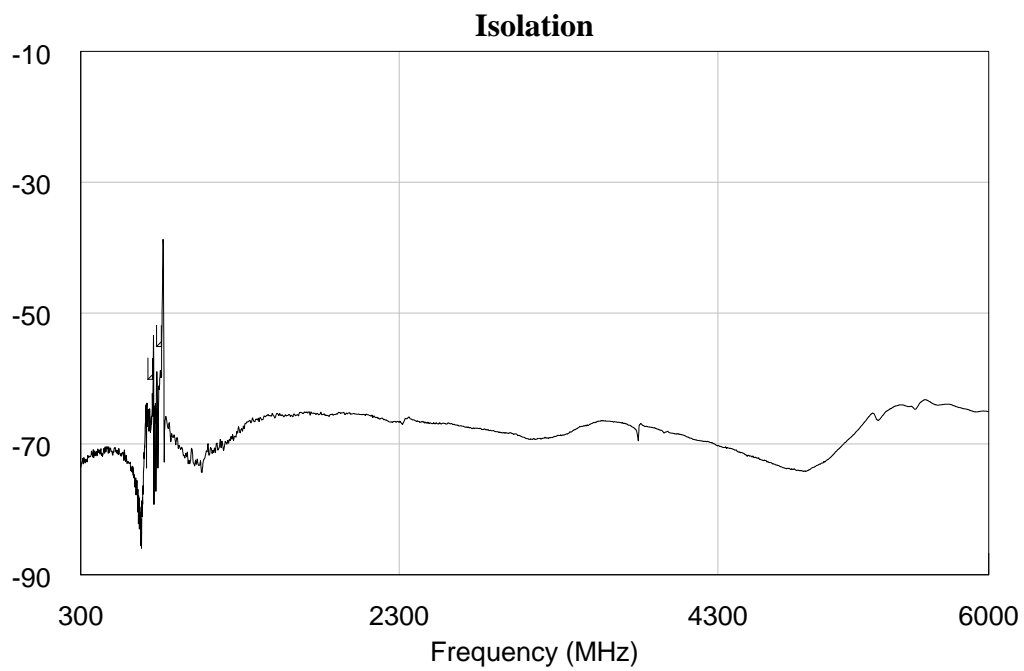
3-2-2-2. Tx→Rx Isolation Characteristics



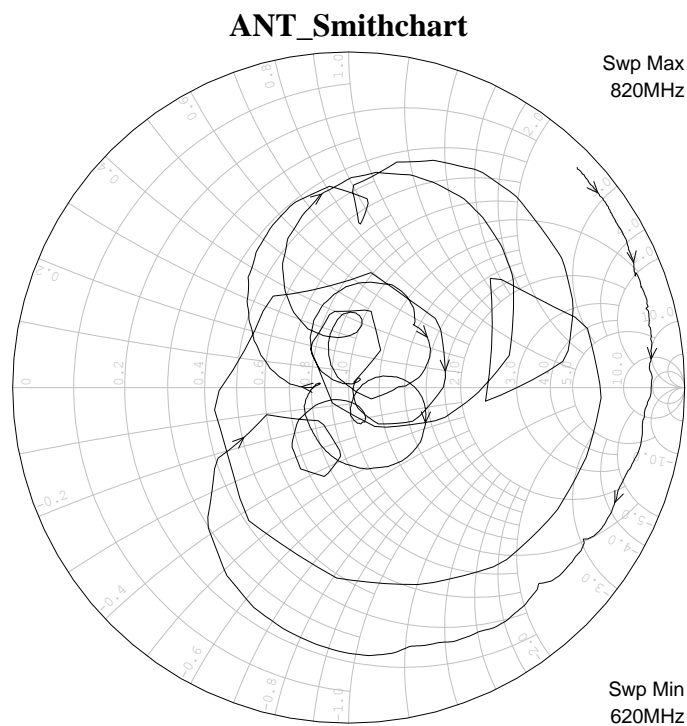
3-2-2-3. Wideband Tx→Ant, Ant→Rx Transmission Characteristics



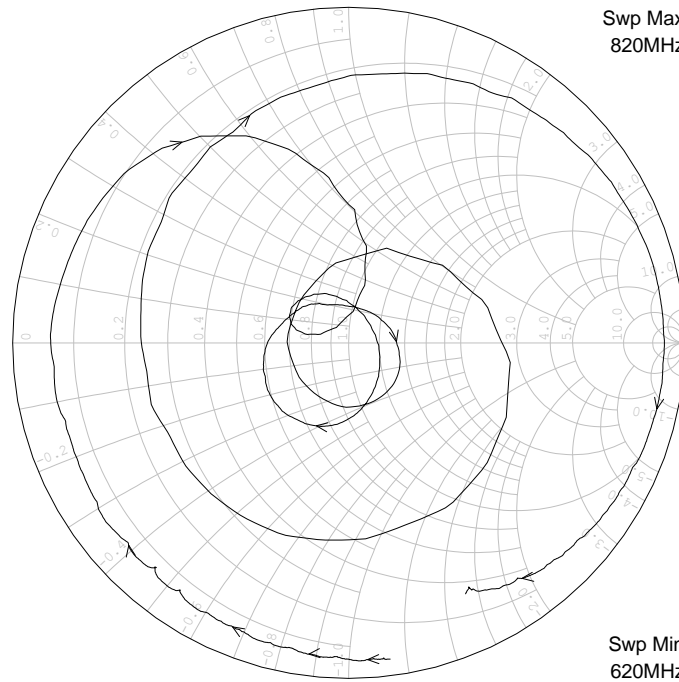
3-2-2-4. Wideband Tx→Rx Transmission Characteristics



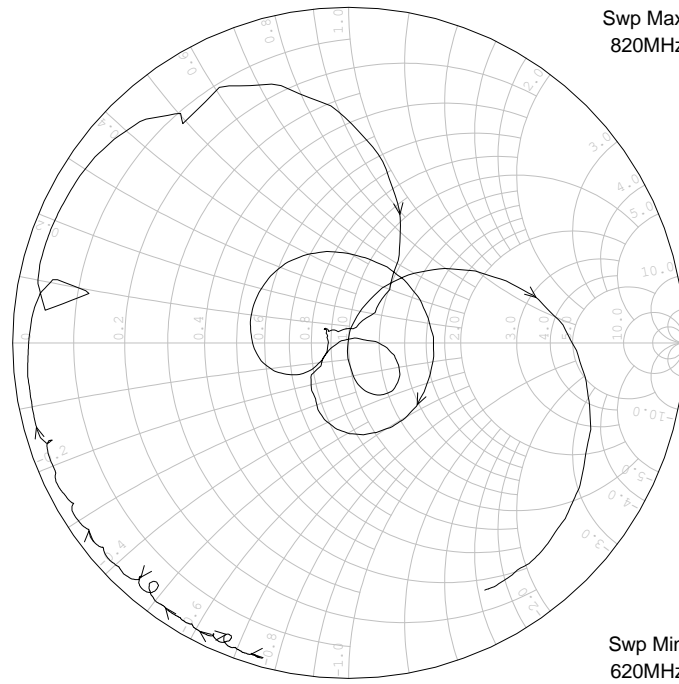
3-2-2-5. Smithchart



TX_Smithchart



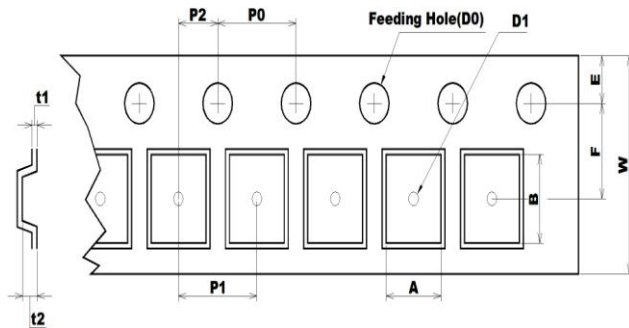
RX_Smithchart



4. PACKING

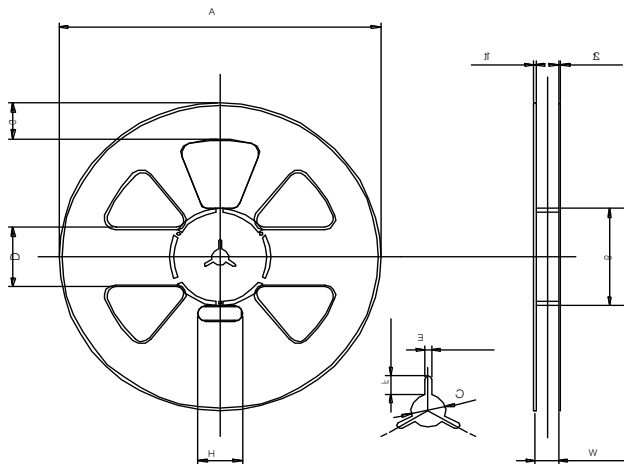
4-1. DIMENSIONS

- Carrier Tape [Unit: mm]



A	B	D0	D1
1.70 +0.10 -0.10	2.1 +0.10 -0.10	Ø1.55 +0.05 -0.05	Ø1.00 MIN
E	F	P0	P1
1.75 +0.10 -0.10	3.5 +0.05 -0.05	4 +0.10 -0.10	4 +0.10 -0.10
P2	t1	t2	W
2 +0.05 -0.05	0.25 +0.05 -0.05	0.70 +0.10 -0.10	8 +0.30 -0.30

- Reel [Unit: mm]



A	B	C	D
Ø258.0 +1.0 -0.5	Ø81.0 +1.0 -1.0	Ø13.0 +0.5 -0.5	50.0 +0.8 -0.8
E	F	G	H
2.2 +0.3 -0.3	7.0 +0.5 -0.5	30.0 +0.8 -0.8	35.0 +1.0 -1.0
t1	t2	W	
1.8 +0.5 -0.5	1.5 +0.5 -0.5	9.0 +1.0 -0.5	

- The product shall be packed properly not to be damaged during transportation and storage.

4-2. REELING QUANTITY

10 inch reel: 8,000 pcs/reel

4-3. TAPING STRUCTURE

The tape shall be wound around the reel in direction shown below.

