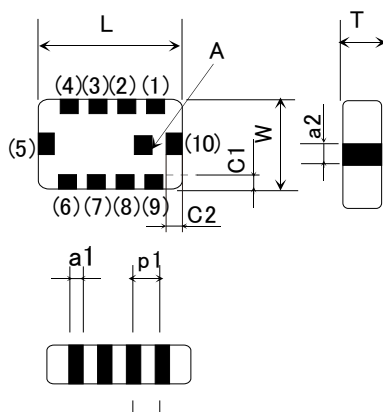


DUAL MATCHING FILTER

1. Characteristics (at -40~+85°C)

Part Number	LFD21868MMF1D386	
Frequency Range (BW)	891.50 ± 23.50 MHz	
ANT Port Impedance (Nominal)	50 Ω	
Tx/Rx/TRx Port Impedance (Nominal)	Conjugate match with CC112x	
Insertion Loss in BW	Tx	2.0 dB max
	Rx	3.3 dB max.
Attenuation (Absolute value)	Tx	35.0 dB min. at 1736.00 ~ 1830.00 MHz 37.0 dB min. at 2604.00 ~ 2745.00 MHz
Tx Port V.S.W.R. in BW	1.5 max.	
Rx Port V.S.W.R. in BW	2.2 max.	
Power Capacity	500 mW max.	

2. Construction, Dimensions & Marking



Mark	Meaning
A	Directional Input Mark

(in mm)

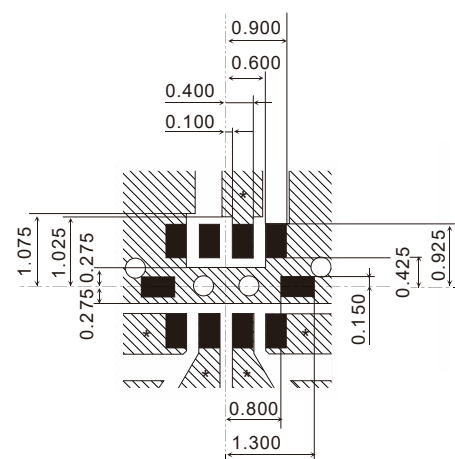
Mark	Dimension	Mark	Dimension
L	2.00±0.15	a2	0.30±0.15
W	1.25±0.15	c1	0.20±0.15
T	0.7 max.	c2	0.20±0.15
a1	0.25±0.15	p1	0.50±0.15

TERMINAL CONFIGURATION

Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	GND	(6)	Rx1(LNA_N)
(2)	IN	(7)	Rx2(LNA_P)
(3)	NC	(8)	TRx
(4)	GND	(9)	Tx(PA)
(5)	GND	(10)	GND

Terminal of "NC" should be fixed to the no connected pattern.

3. Land Pattern



(in mm)

■ Land

 Solder resist

☐ No pattern
Solder resist

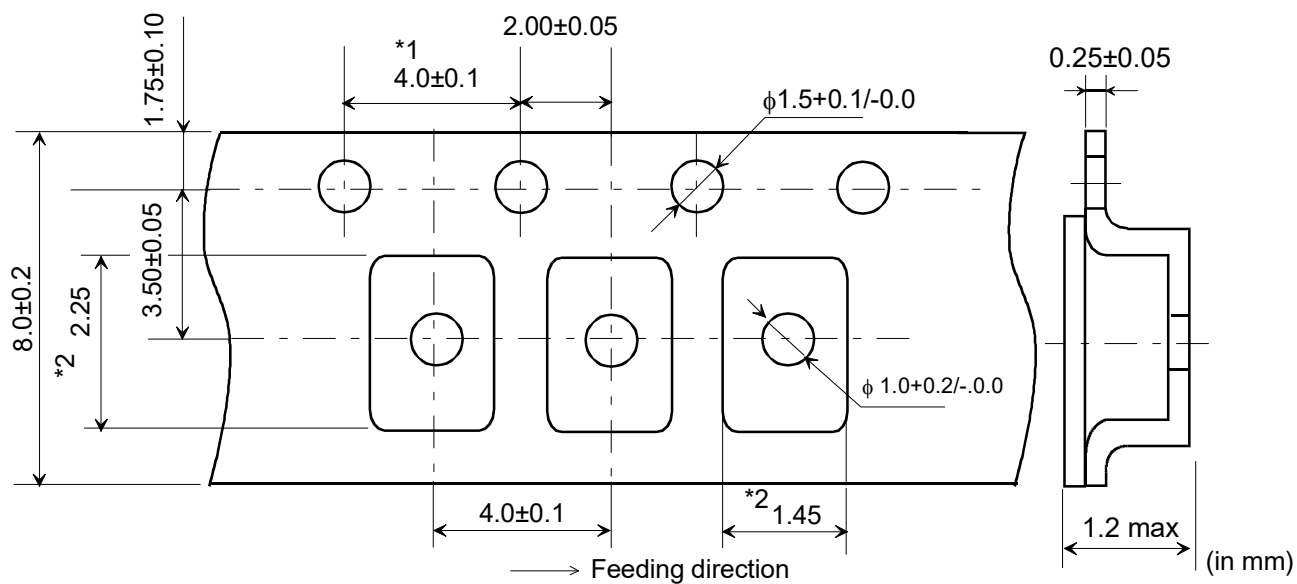
○ Through Hole ϕ 0.30

※□ Line width to be designed to match $50\ \Omega$ characteristic impedance, depending on PCB material and thickness.

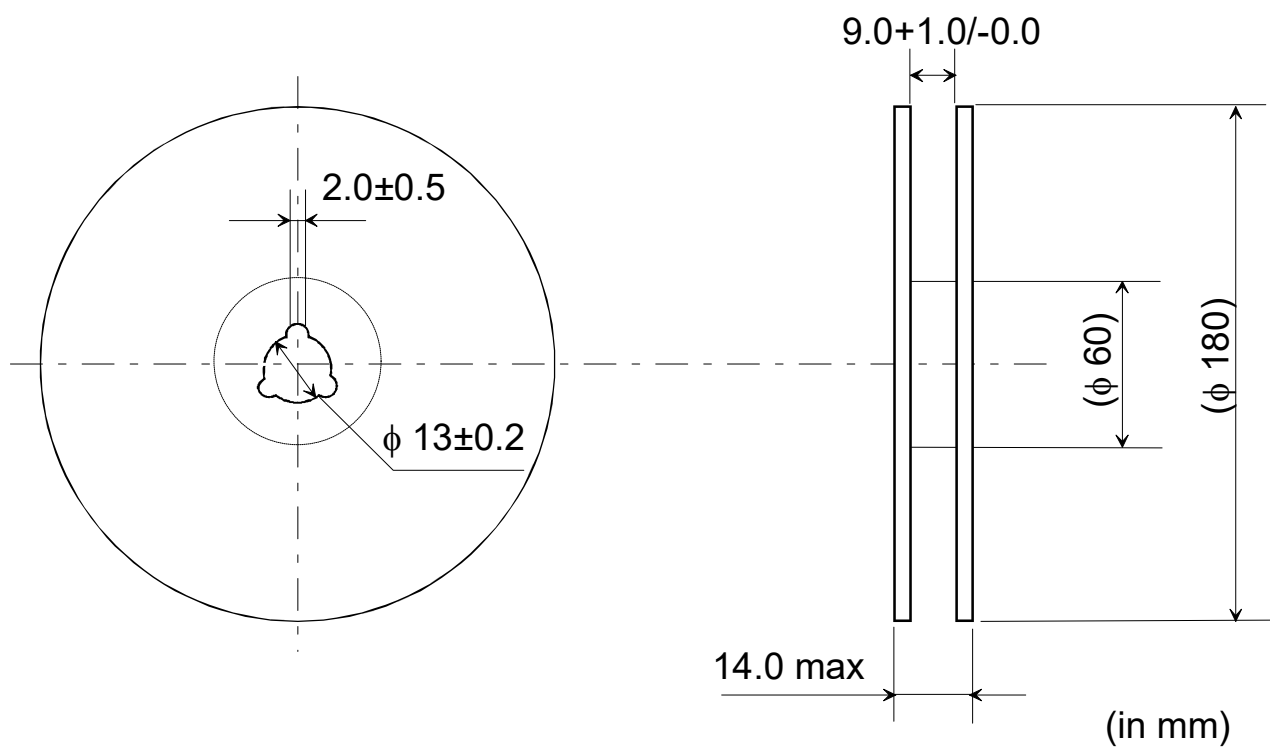
(1) Dimensions of Tape (Plastic tape)

*1 Cumulative tolerance of max. ± 0.3 every 10 pitches

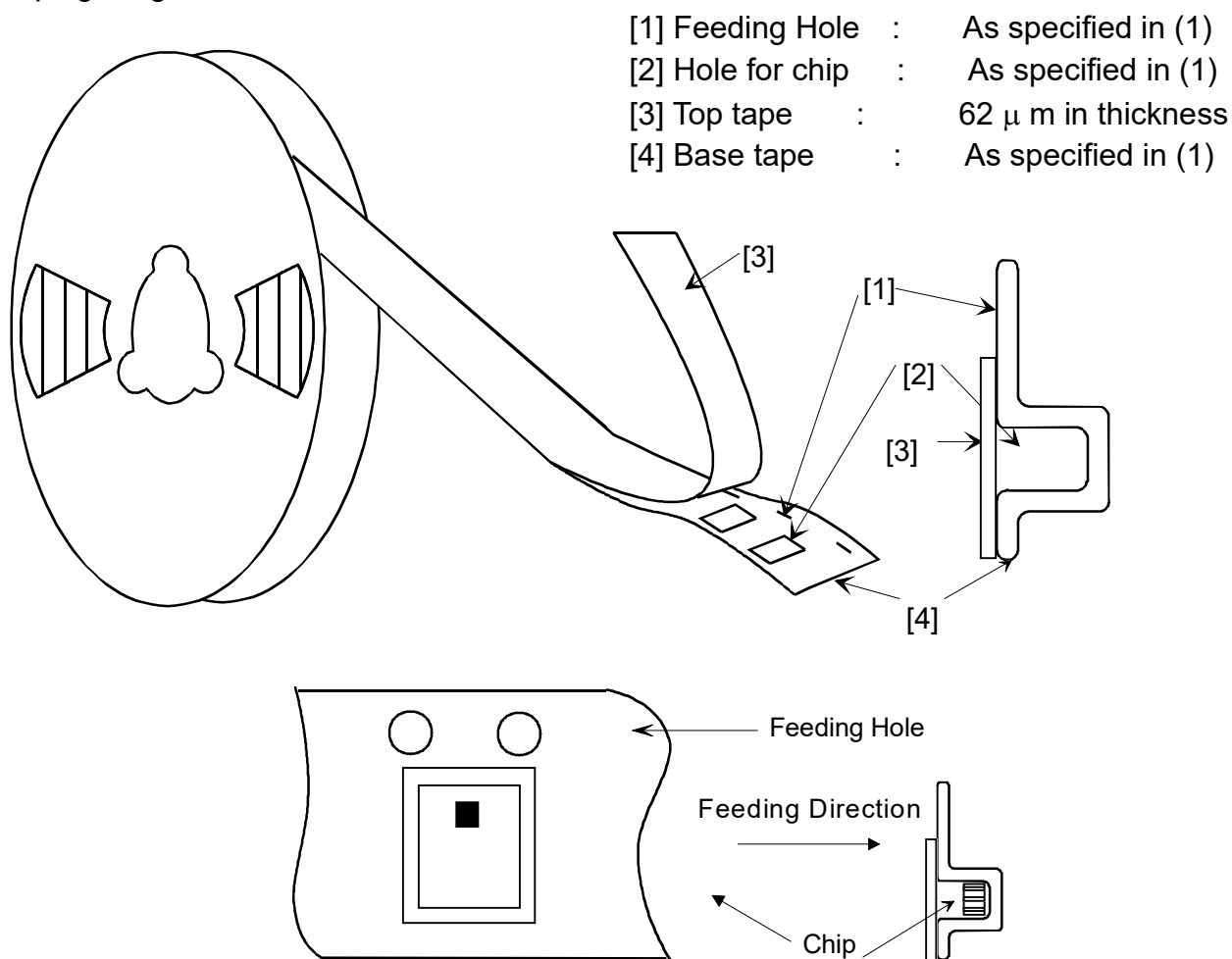
*2 Reference value



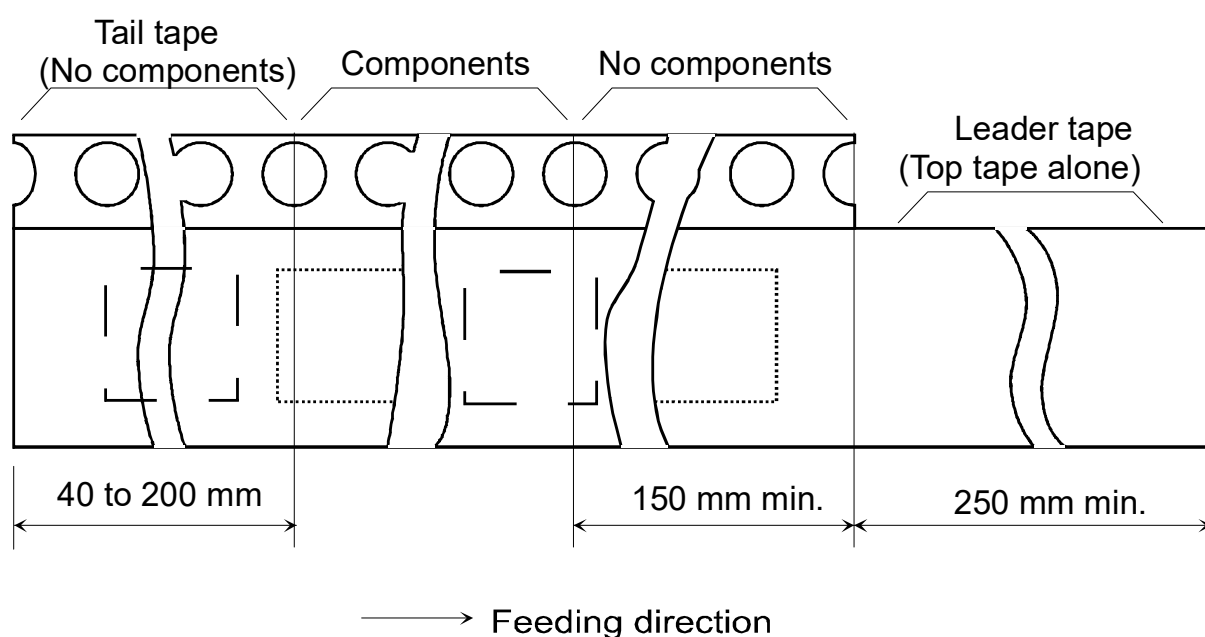
(2) Dimensions of Reel



(3) Taping Diagrams

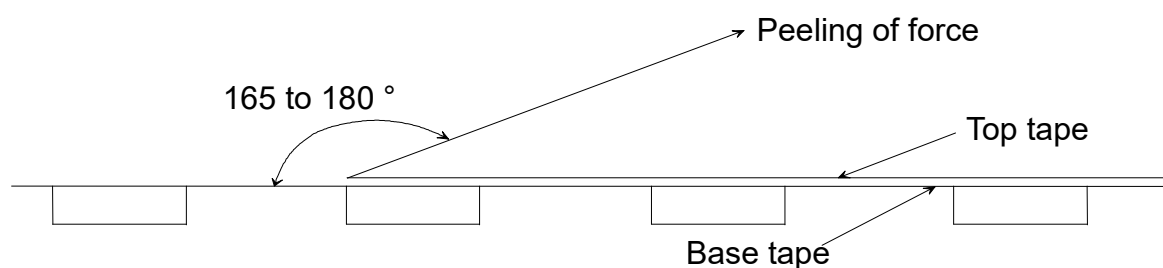


(4) Leader and Tail tape



- (5) The tape for chips are wound clockwise, the feeding holes to the right side as the tape is pulled toward the user.
- (6) The top tape and base tape are not adhered at no components area for 250 mm min.
- (7) Tear off strength against pulling of top tape : 5 N min.
- (8) Packaging unit : 4000 pcs./ reel
- (9) Material : Base tapePlastic
ReelPlastic
- (10) Peeling of force : in the direction of peeling as shown below.
Peeling speed : 300mm/min \pm 10mm/min

Tape width	Peeling of force (max)
8mm	1.0N
12-56mm	1.3N
72-200mm	1.5N



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- Traffic signal equipment.
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