

■ Features

- SMD construction, and low profile.
- High Impedance and Excellent Frequency Characteristic.
- Self Electromagnetic Shielding.
- Low Magnetic Flux Leakage.
- Operating temperature: -40°C to +105°C (Contain Heating coil)

■ Applications

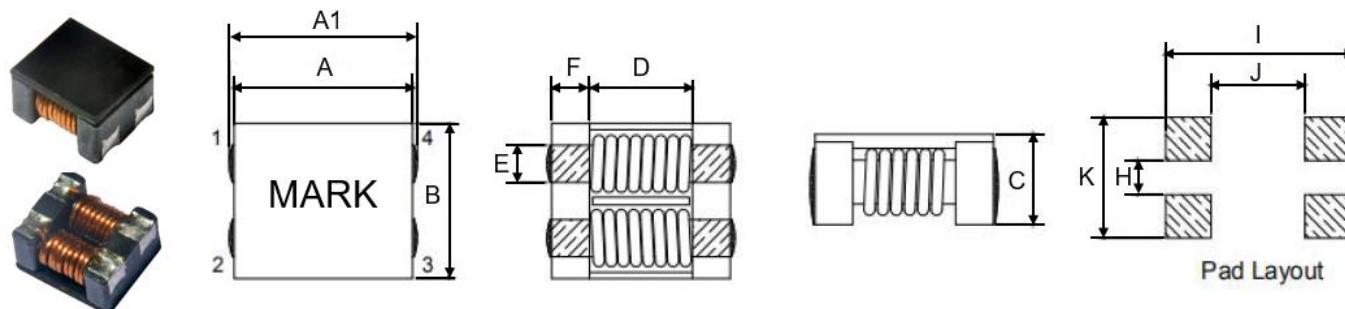
- LED Light, TV game, Monitor, etc.
- EMI common-mode noise.

■ Product Identification

YLCM □□□□□□ - □□□ T
 (1) (2) (3) (4)

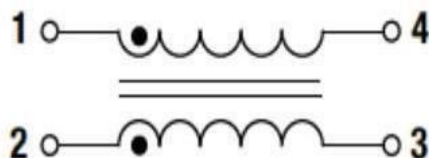
- (1) : Type
- (2) : Dimensions
- (3) : Impedance
- (4) : Taping

■ Shapes and Dimensions (Unit: mm)



TYPE	A	A1	B	C Max	D Typ.	E Typ.	F Typ.	K Typ.	H Typ.	I Typ.	J Typ.
YLCM1513CF	15.0±0.5	15.6±0.5	13.0±0.5	6.6	9.4	2.6	2.5	9.5	3.3	16.0	8.8

■ Circuit Diagram



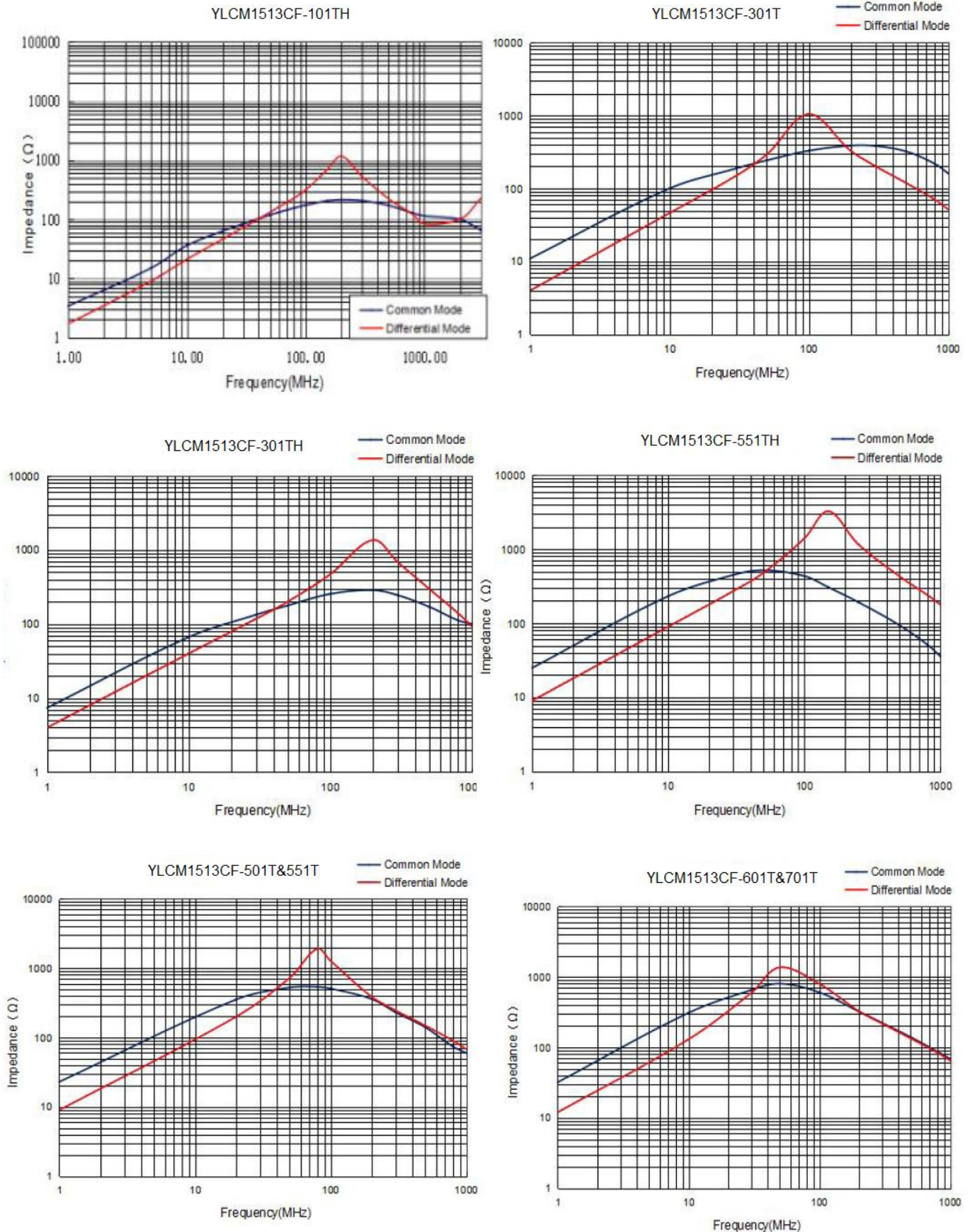
■ YLCM1513CF Series

Part Number	Z (Ω) @100MHz		DCR (mΩ) Max.	Rated Current (A) max.	Rated Volt. (V)max.	IR(MΩ) min.
	Min.	Typ.				
YLCM1513CF-101TH	100	190	3.5	20.0	125	10
YLCM1513CF-301T	225	300	5.0	13.0	125	10
YLCM1513CF-301TH	225	300	4.0	15.0	125	10
YLCM1513CF-501T	400	500	6.0	10.0	125	10
YLCM1513CF-551T	400	550	6.0	10.0	125	10
YLCM1513CF-551TH	400	550	5.0	12.0	125	10
YLCM1513CF-601T	500	600	7.0	10.0	125	10
YLCM1513CF-701T	500	700	7.0	10.0	125	10
YLCM1513CF-102T	800	1000	10.0	9.0	125	10
YLCM1513CF-152T	1200	1500	23.0	8.0	125	10
YLCM1513CF-232T	1800	2300	11.0	7.0	125	10
YLCM1513CF-302T	2500	3000	75.0	4.0	125	10

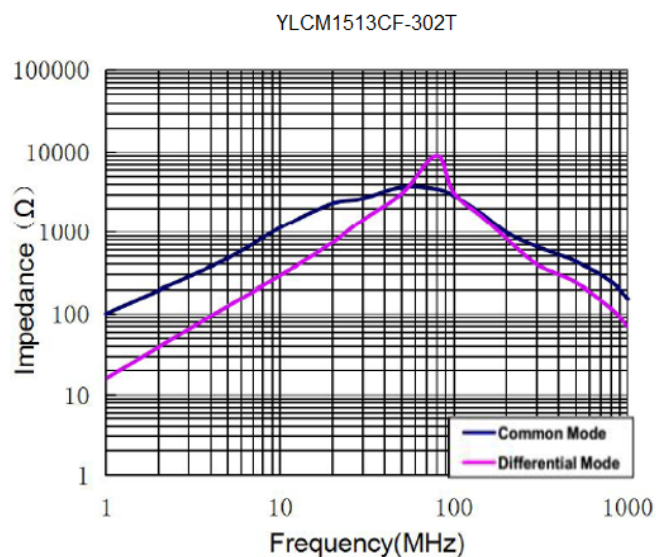
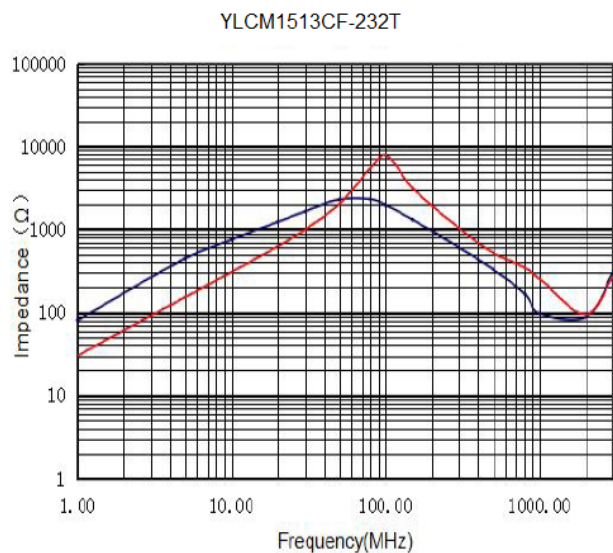
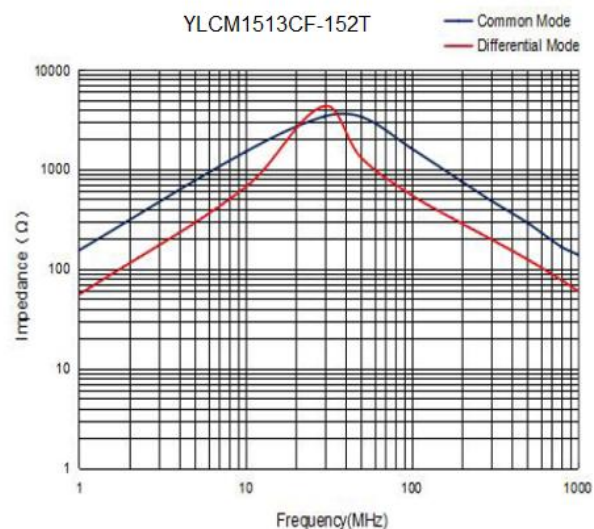
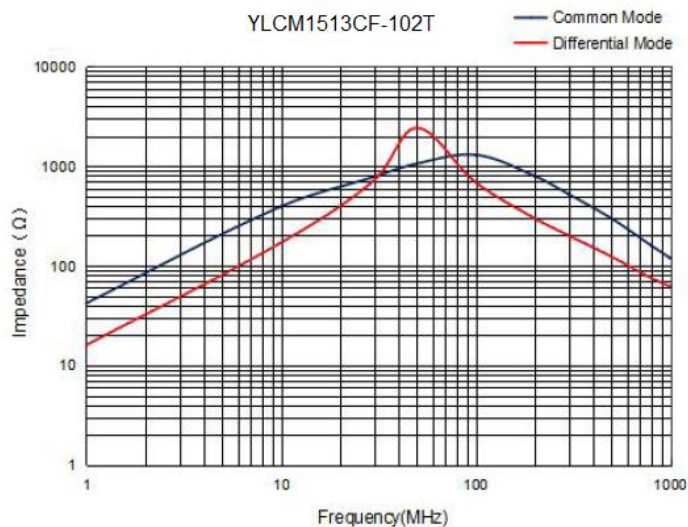
■ Material List

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	CLIP	C1100 P2
3	COVER	LCP
4	WIRE	P180 Grd1
5	SOLDER	107H
6	ADHESIVE	EPOXY RESIN
7	INK	WHITE

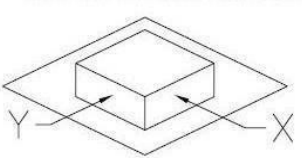
■ Characteristics(Reference)



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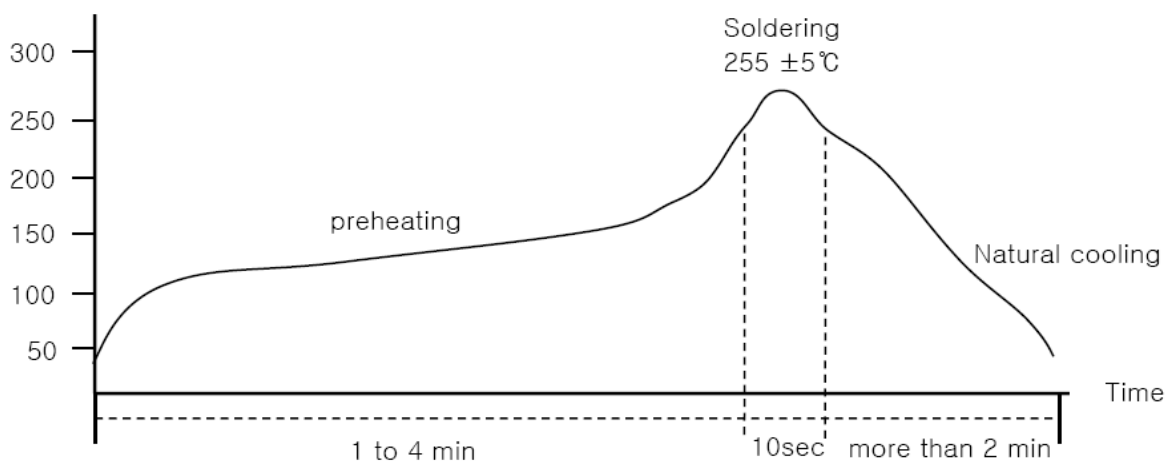


■ Reliability Testing

Operating Temperature	- 40 to + 105 °C (Contain Heating coil)
Appearance Inspection	No external defects by visual inspection
Terminal Strength 	After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec. Terminal should not peel off. (Refer to figure at right)
Heat endurance of reflow soldering	Refer to figure
Insulating resistance	Over 100 MΩ at 100V D.C . between wire and core .
Dielectric Strength	Apply at 0.5KV 3mA for 1 minute between wire and core .
Temperature characteristics	Inductance coefficient (0~2,000) × 10 / °C (-20 ~ + 125 °C)
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 °C and 1 hours drying under normal condition .
A test is made under the above mentioned condition , and it is kept for 2 hours in the normal	

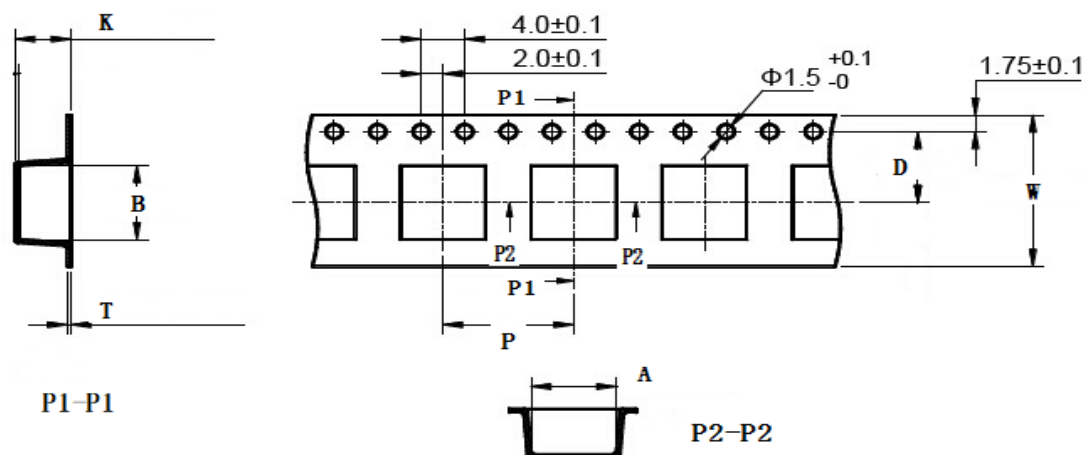
■ Recommended soldering temp.Graph

Temperature °C



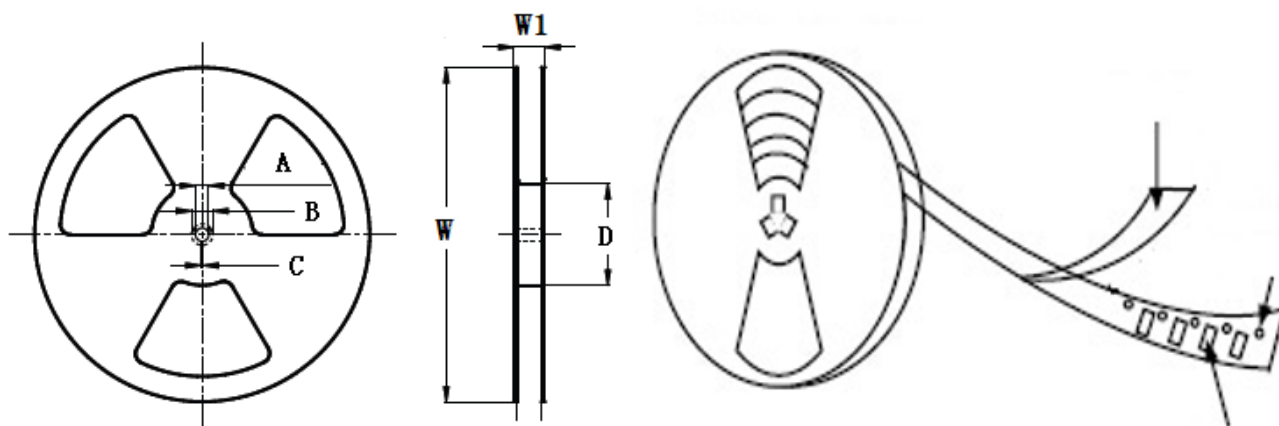
Temperature and humidity . After that , no mechanical and electrical defect should be found .

■ Taping Dimensions(Unit:mm)



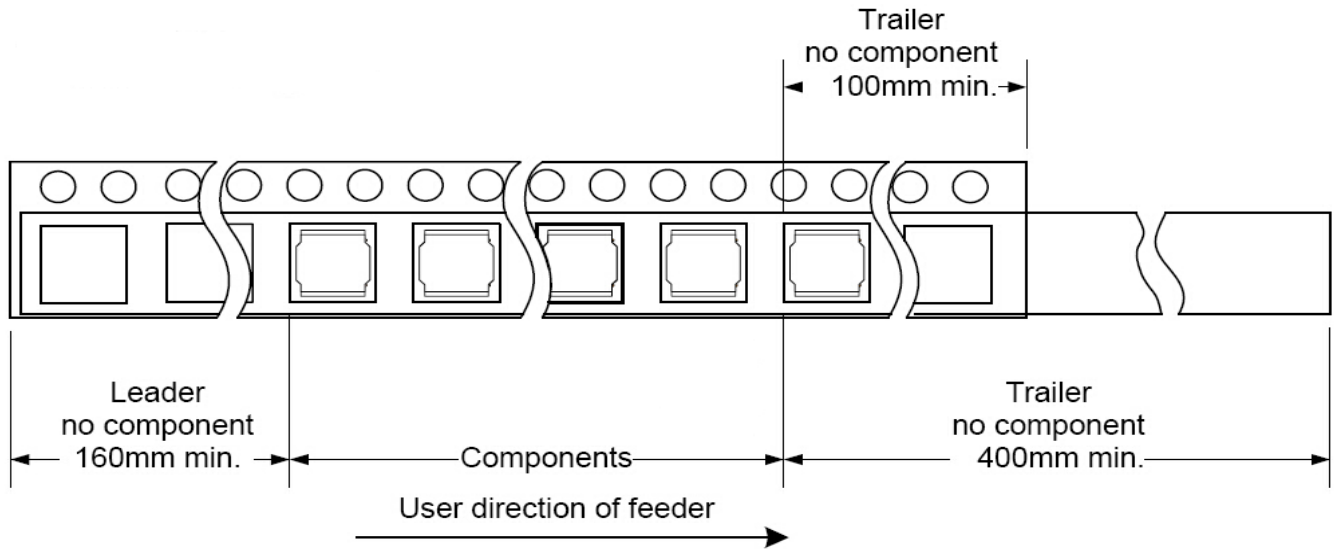
TYPE	W	A	B	D	P	K	T	MPQ
YLCM1513CF	24.0±0.3	7.6±0.1	9.6±0.1	7.5±0.1	16.0±0.1	5.1±0.1	0.35±0.05	350

■ Reel Dimensions(Unit:mm)

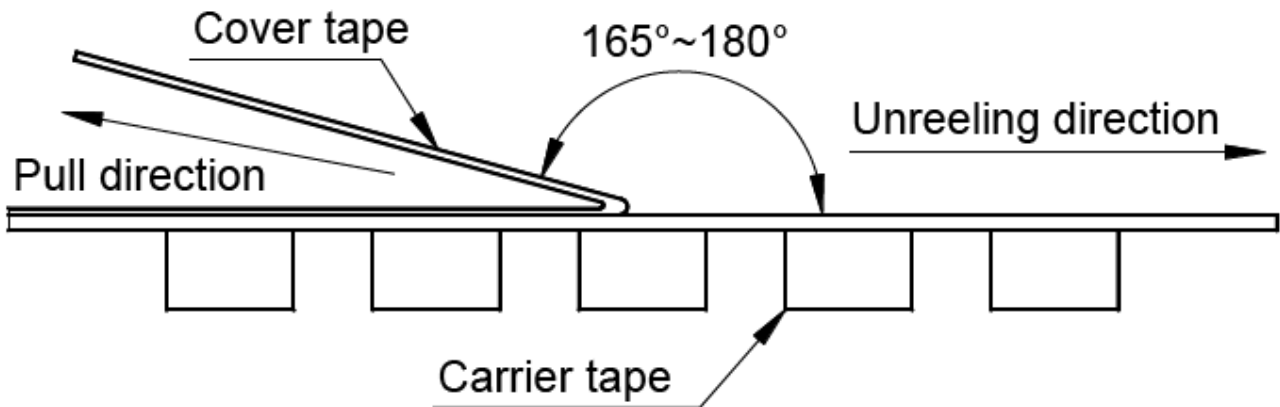


TYPE	W	W1	A	B	C	D
YLCM1513CF	330±2.0	16.4±2.0	13.0±0.50	21.0±0.80	2.0±0.50	100Min

■ Direction of rolling



■ Cover tape peel off condition



Cover tape peel force shall be 0.1N to 1.3N.

Reference peel speed 300±10mm/min.