

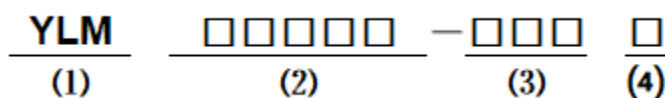
■ Features

- This filter is characterized by small size, highly effective in noise suppression.
- High common mode impedance at noise band and low differential mode impedance at signal band. Due to the low differential mode impedance with high coupling factor, there is almost no distortion on high speed transmission of high resolution video signals.
- Operating temperature: -40°C to $+105^{\circ}\text{C}$.

■ Applications

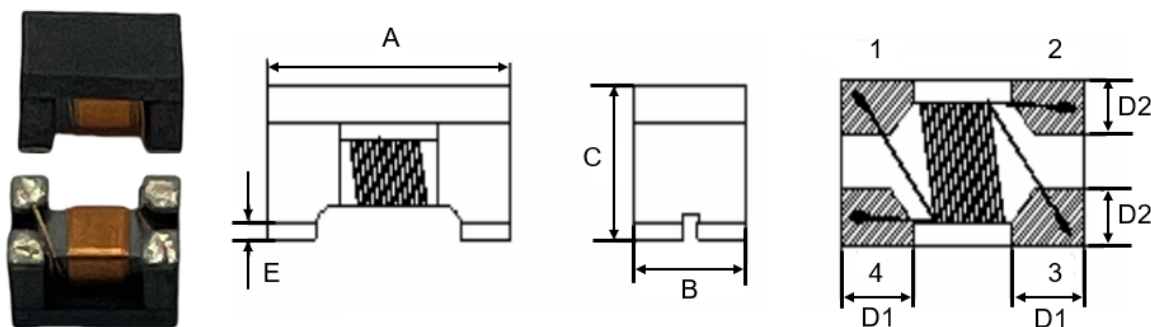
- YLM Series is suited for use on the USB2.0 line and IEEE1394 line of Notebook PC, LVDS lines of PC, LCD Monitor, PCI express, small digital AV equipment such as digital Camera and Free disk, MP3 player and Serial-ATA.
- LED Light, TV game, Monitor, etc.
- EMI common-mode noise.

■ Product Identification



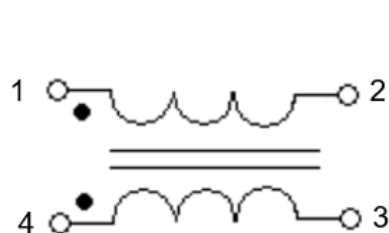
- (1) : Type
 (2) : Dimensions
 (3) : Impedance
 (4) : Packaging

■ Shapes and Dimensions (Unit: mm)

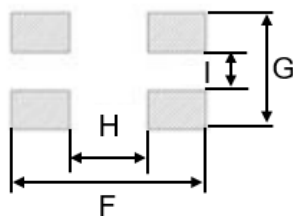


TYPE	A	B	C	D1 Typ.	D2 Typ.	E
YLM4532D	4.5 ± 0.2	3.2 ± 0.2	2.8 ± 0.2	1.0	1.2	0.2 ± 0.1

■ Equivalent Circuit & Recommended Footprint



PCB PATTERN



Unit:mm

TYPE	F Typ.	G Typ.	H Typ.	I Typ.
YLM4532D	4.80	3.80	2.40	0.70

■ YLM4532D Series

Part Number	Common mode Impedance (Ω) @100MHz	DC Resistance (Ω) Max.	I _{rms} (mA) Max.	Rated Volt. (Vdc)Max.	IR(M Ω) Min.
YLM4532D-800T	80 $\pm$ 25%	0.050	2300	50	10
YLM4532D-900T	90 $\pm$ 25%	0.085	2300	50	10
YLM4532D-121T	120 $\pm$ 25%	0.100	1400	50	10
YLM4532D-201T	200 $\pm$ 25%	0.100	1500	50	10
YLM4532D-221T	220 $\pm$ 25%	0.100	1300	50	10
YLM4532D-331T	330 $\pm$ 25%	0.110	1100	50	10
YLM4532D-601T	600 $\pm$ 25%	0.120	1400	50	10
YLM4532D-701T	700 $\pm$ 25%	0.120	1500	50	10
YLM4532D-801T	800 $\pm$ 25%	0.160	1000	50	10
YLM4532D-901T	900 $\pm$ 25%	0.170	1000	50	10
YLM4532D-102T	1000 $\pm$ 25%	0.180	800	50	10
YLM4532D-142T	1400 $\pm$ 25%	0.200	700	50	10

1,Rating DC current:Temperature rise(ΔT) is 40°C approximately at I_{rms}.

2,Storage temp:-10°C ~ +40°C R.H.:65% Max.

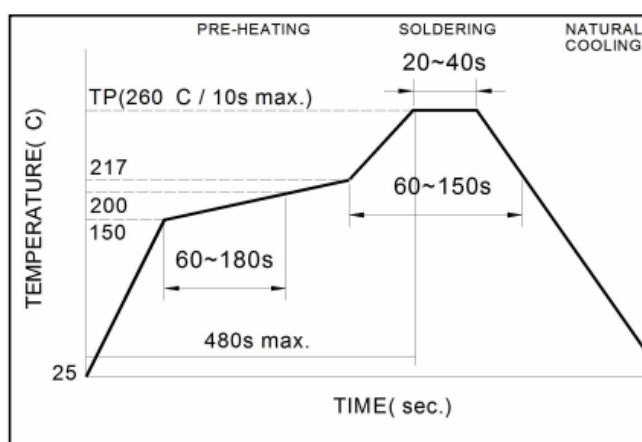
3,Moisture sensitivity level(MSL)2(1 year floor life at <30°C/65% relative humidity)

Material List

NO.	ITEM	DESCRIPTION	SUPPLIER
1	Upper Plate	Ferrite	Nian Cheng Or equivalent
2	CORE	Ferrite Core	Nian Cheng Or equivalent
3	WIRE	Enameled Copper Wire	Elektrisola Or equivalent

Soldering Conditions

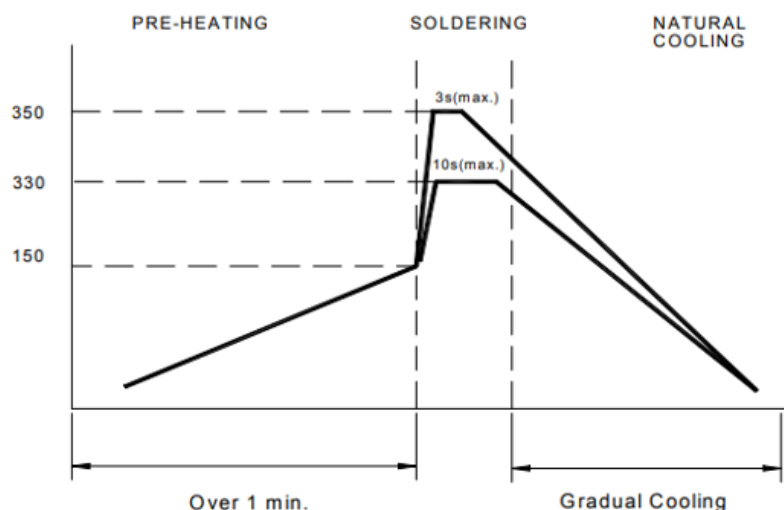
Figure 1:Re-flow Soldering(Lead Free)



Note:

- ※ Preheat circuit and products to 150°C.
- ※ 260°C tip temperature(Max).
- ※ Reflow times: no more than 2 times.
- ※ Solder paste thickness: the best is 0.08mm, but Max is 0.1mm.

Figure 2:Hand Soldering

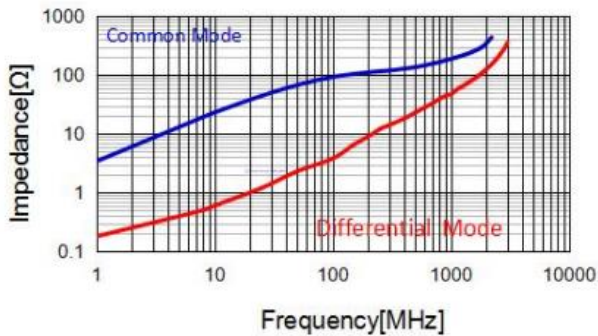


Note:

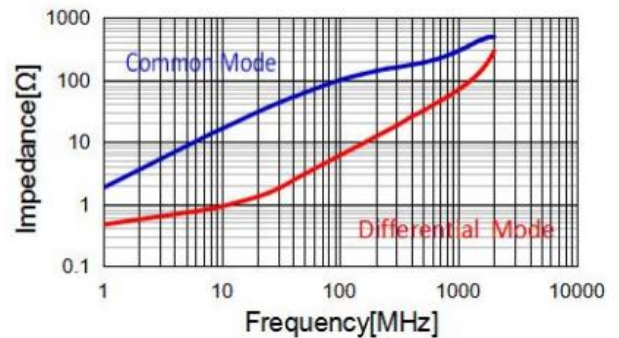
- ※ Use a 20 watt soldering iron with tip diameter of 1.0mm.
- ※ Limit soldering time 3 sec.

■ Electrical Characteristic Curve

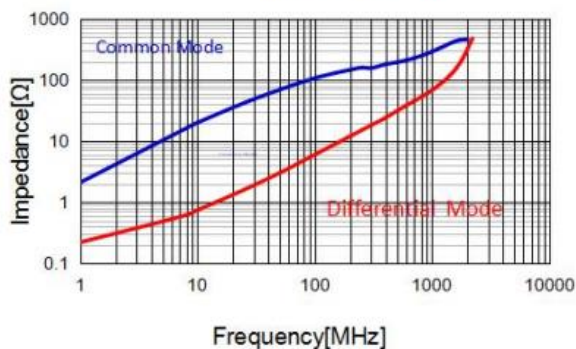
YLM4532D-800T



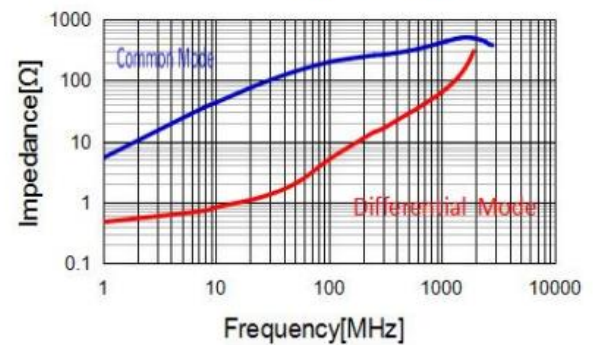
YLM4532D-900T



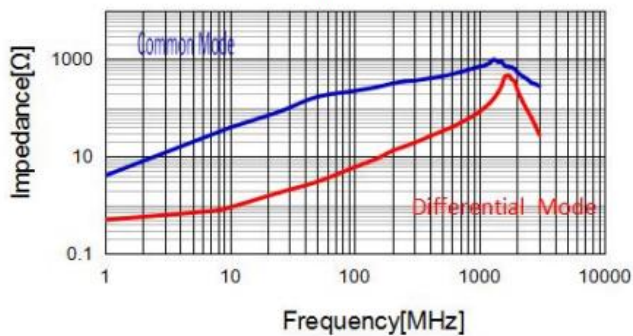
YLM4532D-121T



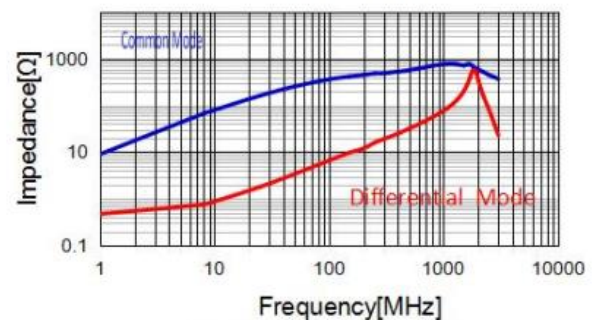
YLM4532D-201T



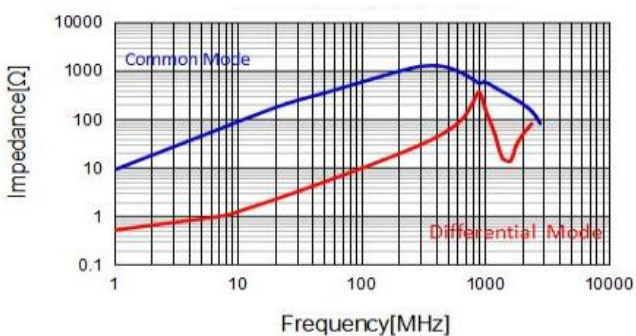
YLM4532D-221T



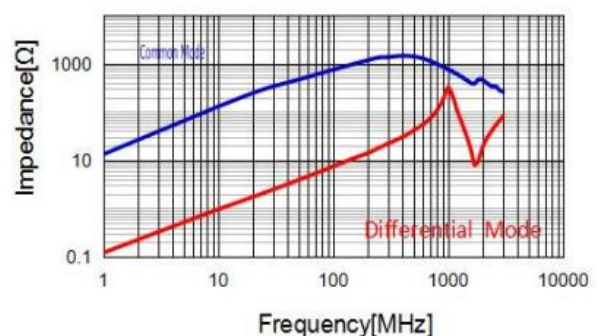
YLM4532D-331T



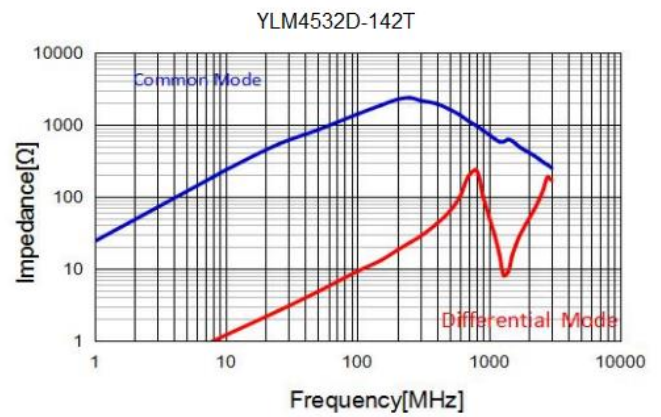
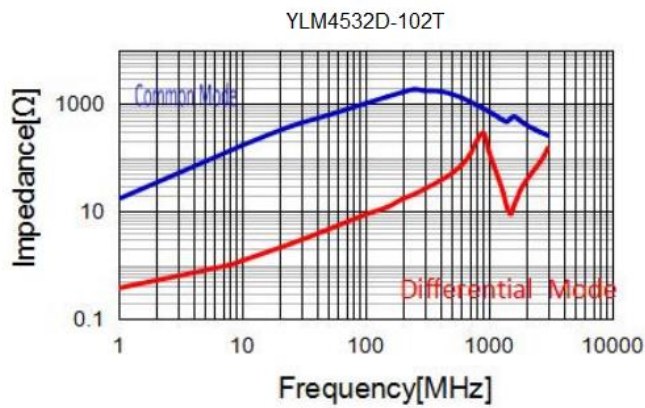
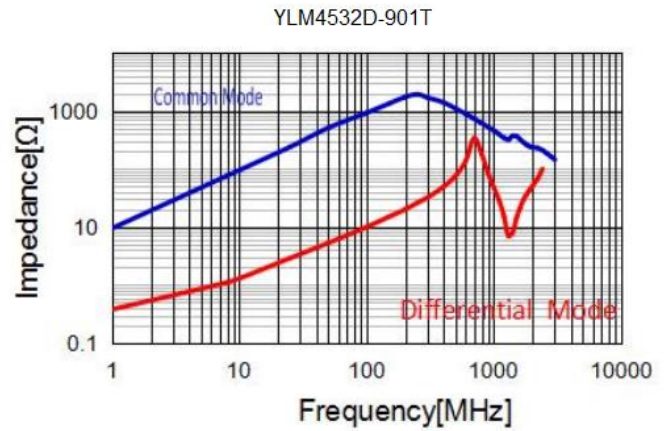
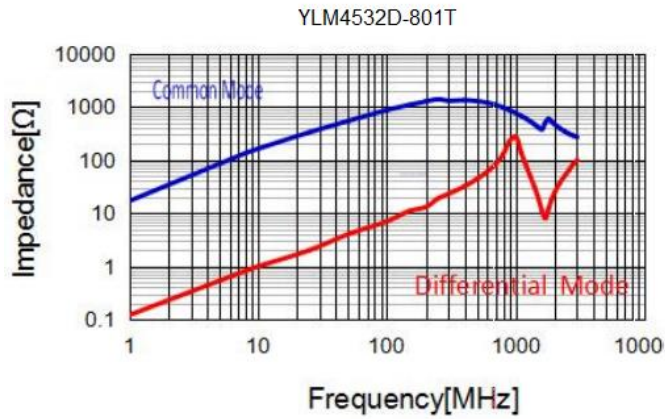
YLM4532D-601T



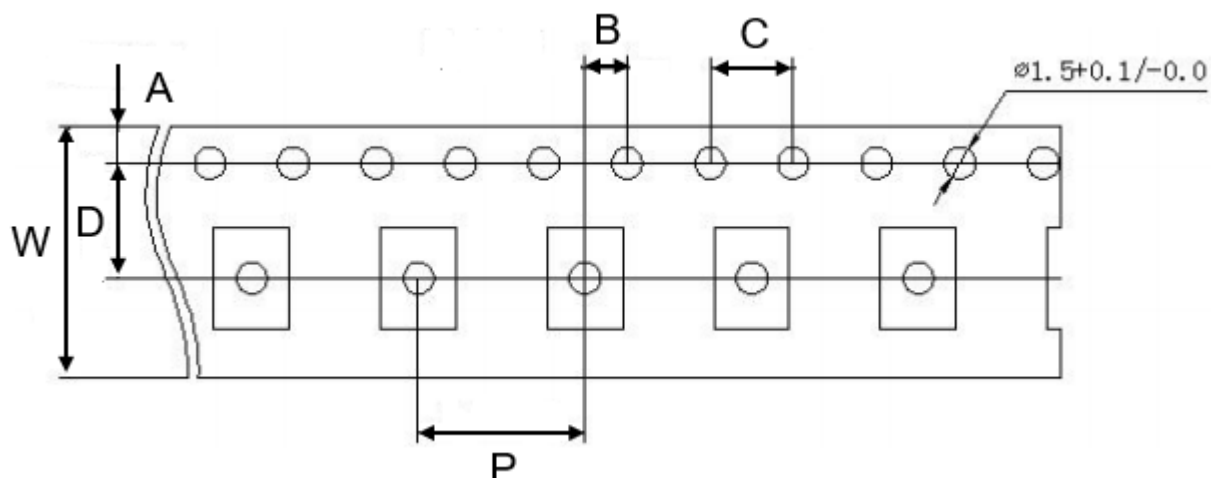
YLM4532D-701T



■ Electrical Characteristic Curve

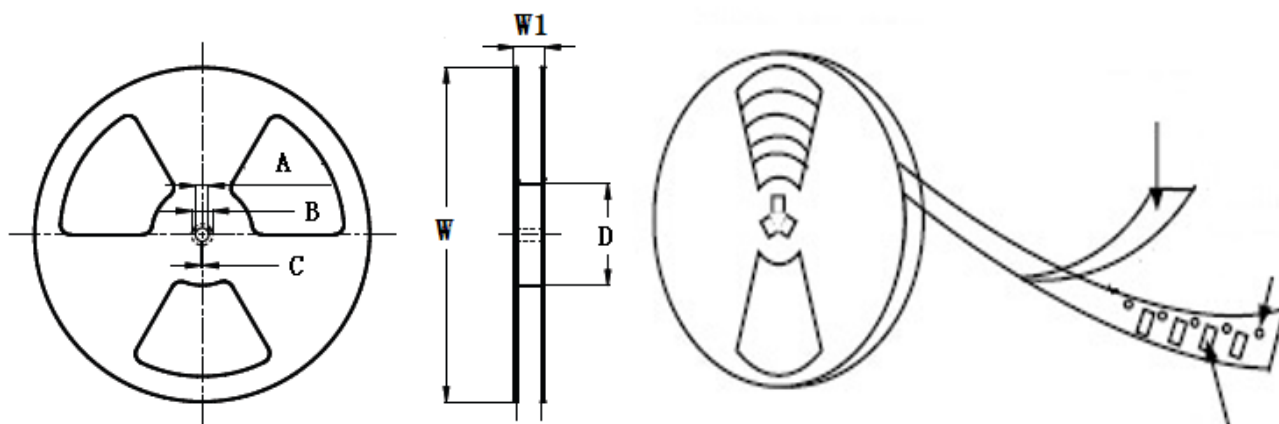


■ Taping Dimensions(Unit:mm)



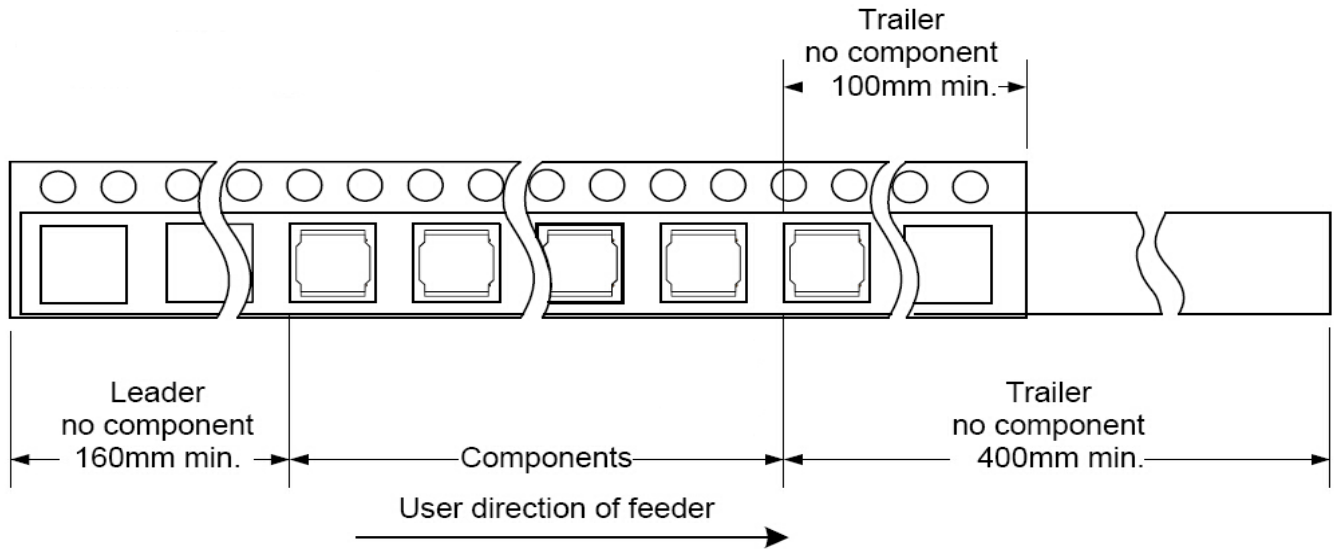
TYPE	W	A	B	C	D	P	MPQ
YLM4532D	12.0 ± 0.3	1.75 ± 0.1	2.0 ± 0.1	4.0 ± 0.1	5.5 ± 0.1	8.0 ± 0.1	500

■ Reel Dimensions(Unit:mm)

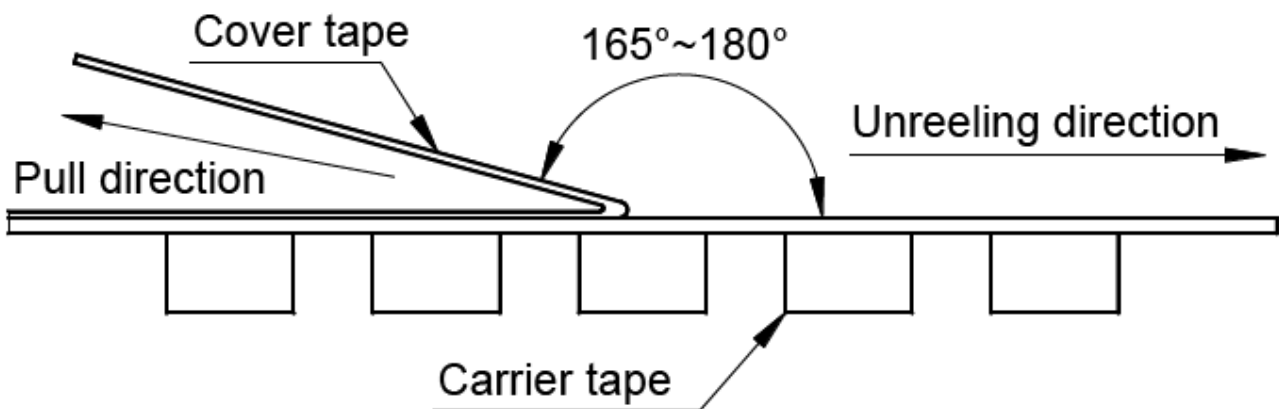


TYPE	W	W1	A	B	C	D
YLM4532D	178 ± 2.0	22.0 ± 2.0	13.0 ± 0.50	21.0 ± 0.80	2.0 ± 0.50	60.0 ± 2.0

■ 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.