

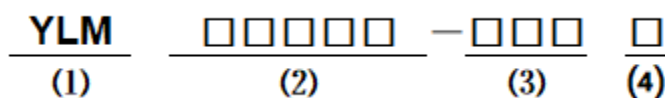
■ Features

- 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

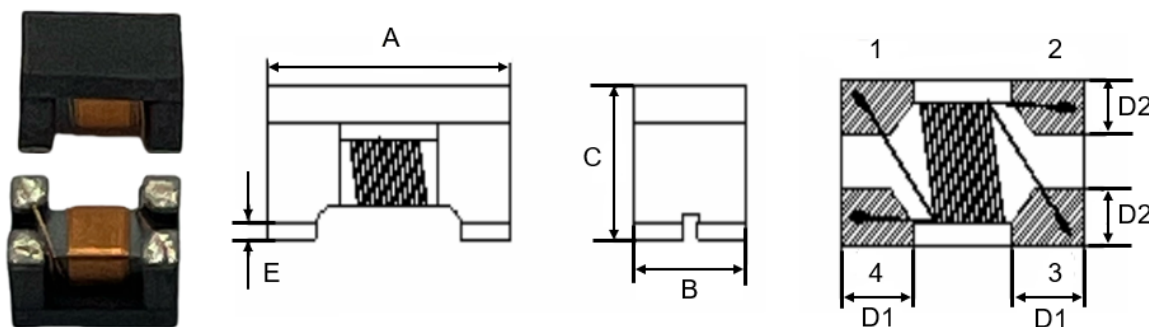
- YLM Series is suited for use on the USB2.0 line and IEEE1394 line of Notebook PC, LVDS lines of PC, LCD Monitor, PCI express, small digital AV equipment such as digital Camera and Free disk, MP3 player and Serial-ATA.
- LED Light, TV game, Monitor, etc.
- EMI common-mode noise.

■ Product Identification



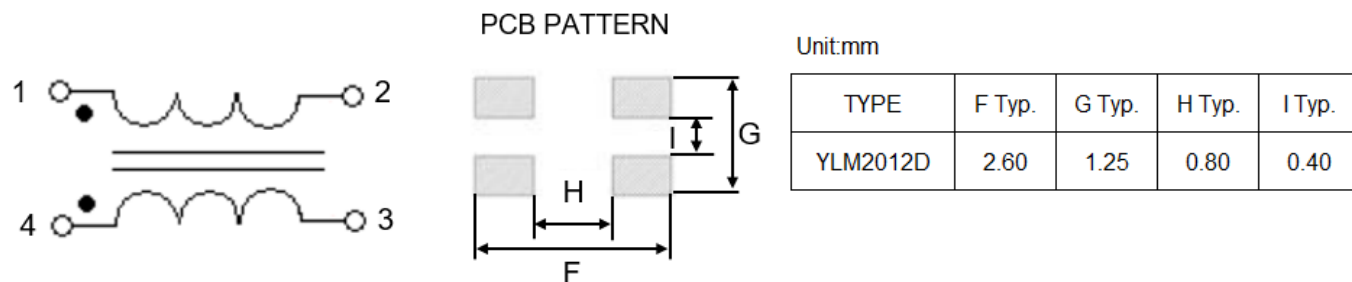
- (1) : Type
(2) : Dimensions
(3) : Impedance
(4) : Packaging

■ Shapes and Dimensions (Unit: mm)



TYPE	A	B	C	D1 Typ.	D2 Typ.	E
YLM2012D	2.0 ± 0.2	1.2 ± 0.2	1.2 ± 0.2	0.55	0.46	0.2 ± 0.1

■ Equivalent Circuit & Recommended Footprint



■ YLM2012D Series

Part Number	Common mode Impedance (Ω) @100MHz	DC Resistance (Ω) Max.	I _{rms} (mA) Max.	Rated Volt. (Vdc)Max.	IR(MΩ) Min.
YLM2012D-500T	50±25%	0.25	400	50	10
YLM2012D-670T	67±25%	0.25	400	50	10
YLM2012D-900T	90±25%	0.30	400	50	10
YLM2012D-121T	120±25%	0.30	400	50	10
YLM2012D-181T	180±25%	0.35	330	50	10
YLM2012D-221T	220±25%	0.40	300	50	10
YLM2012D-261T	260±25%	0.40	300	50	10
YLM2012D-361T	360±25%	0.55	280	50	10
YLM2012D-601T	600±25%	0.60	220	50	10
YLM2012D-801T	800±25%	0.88	300	50	10
YLM2012D-901T	900±25%	0.90	150	50	10
YLM2012D-102T	1000±25%	1.30	150	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.

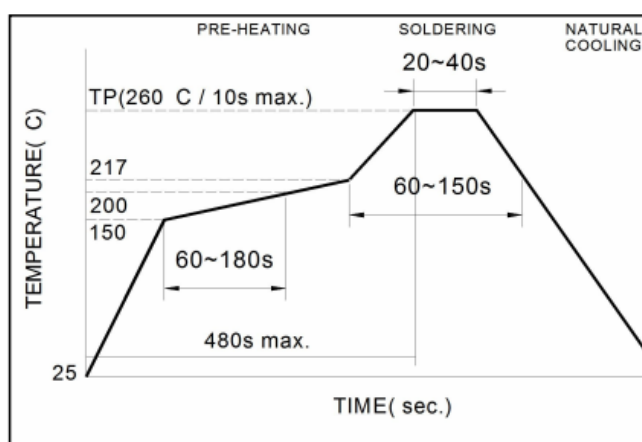
3,Moisture sensitivity level(MSL)2(1 year floor life at <30°C/65% relative humidity)

Material List

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

Soldering Conditions

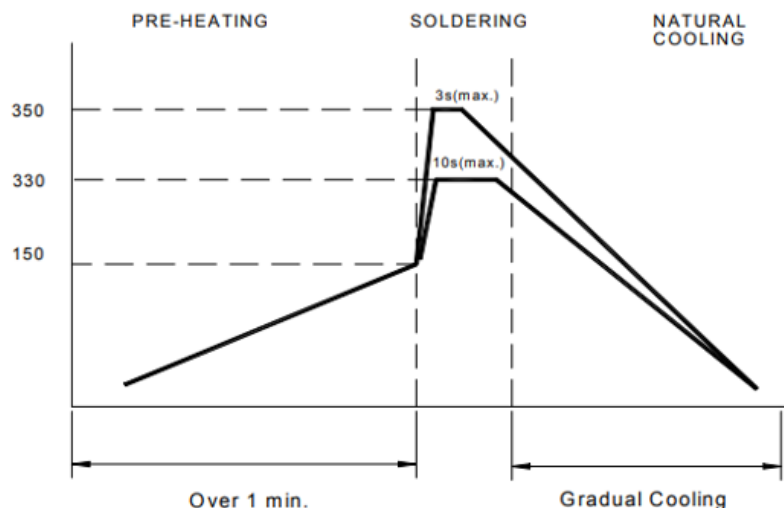
Figure 1:Re-flow Soldering(Lead Free)



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

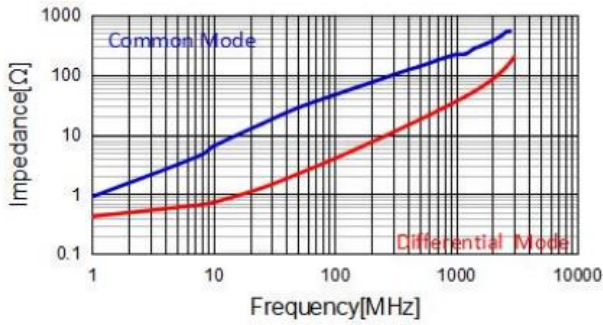


Note:

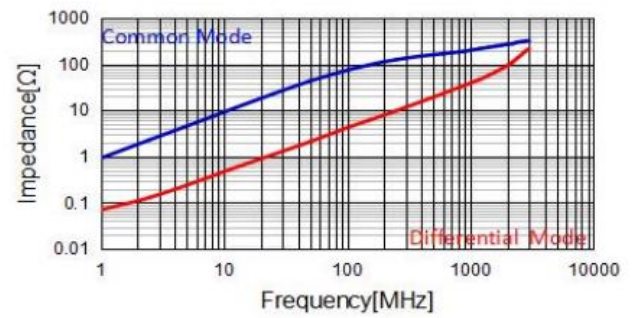
- ※ Use a 20 watt soldering iron with tip diameter of 1.0mm.
- ※ Limit soldering time 3 sec.

■ Electrical Characteristic Curve

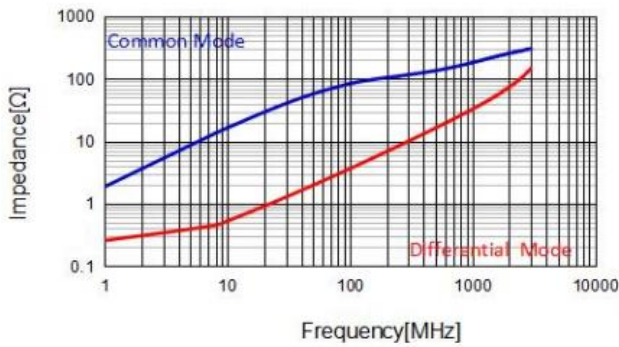
YLM2012D-500T



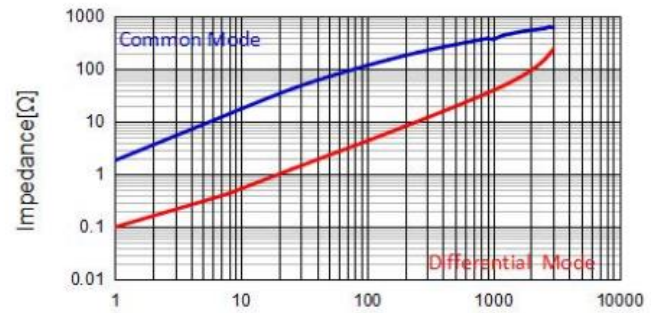
YLM2012D-670T



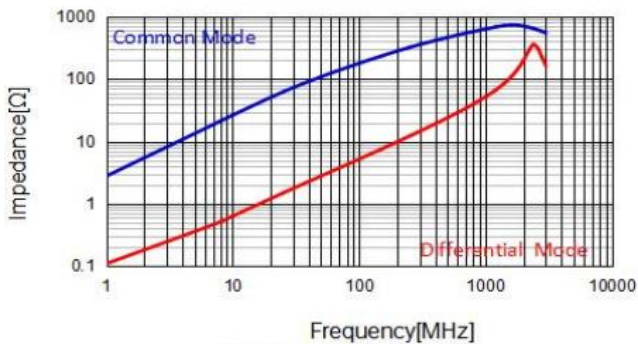
YLM2012D-900T



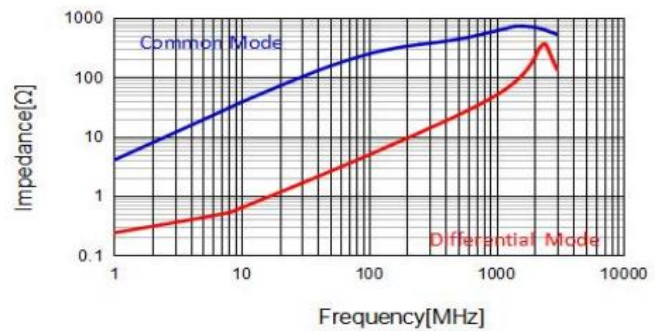
YLM2012D-121T



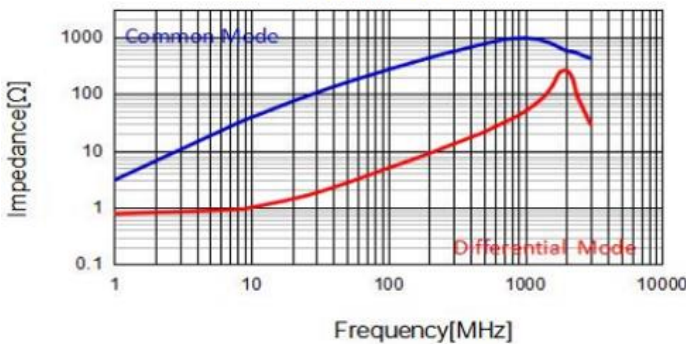
YLM2012D-181T



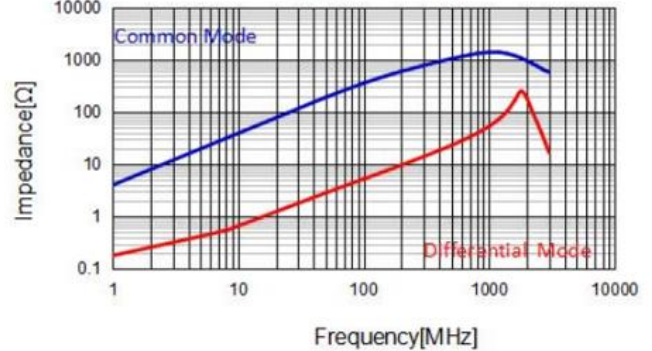
YLM2012D-221T



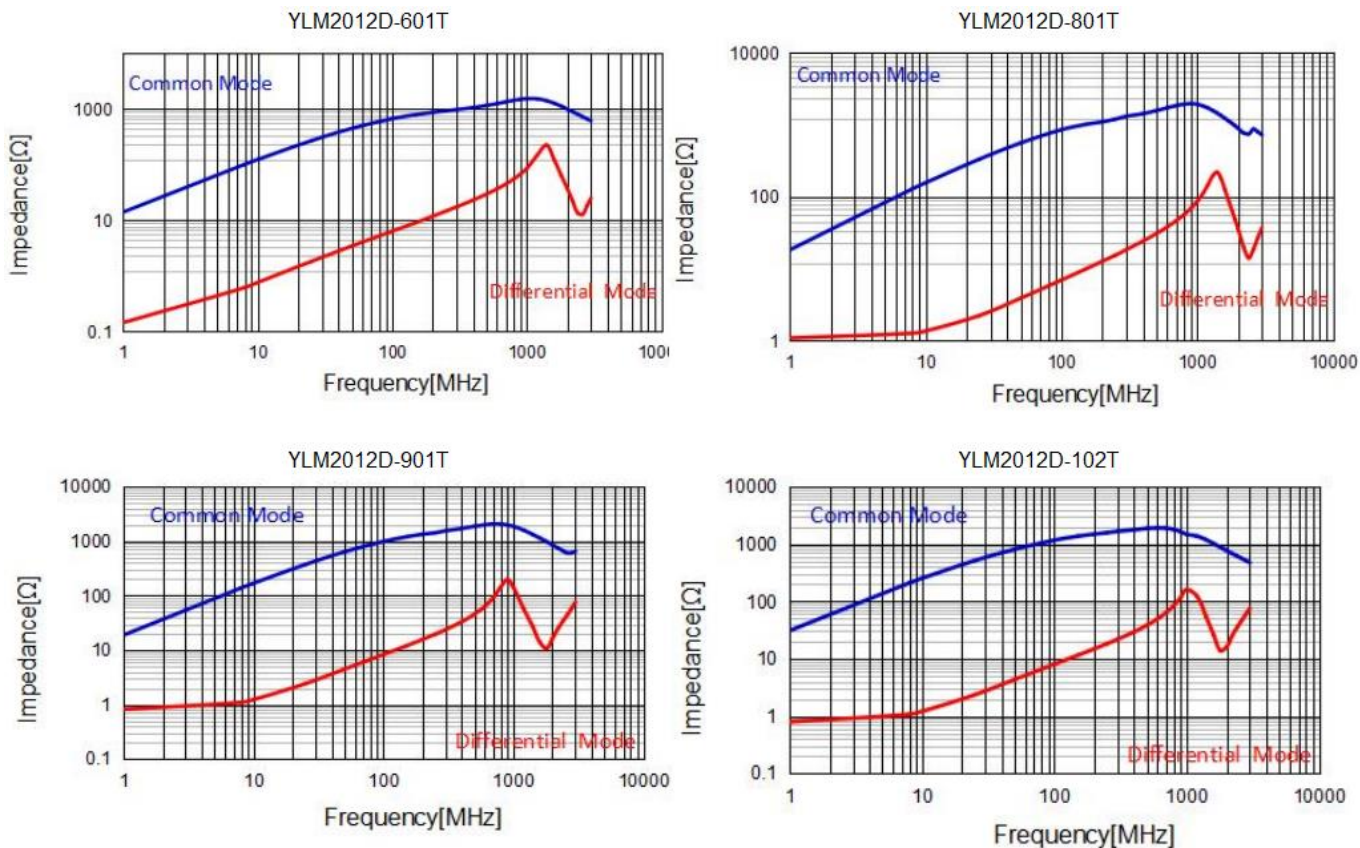
YLM2012D-261T



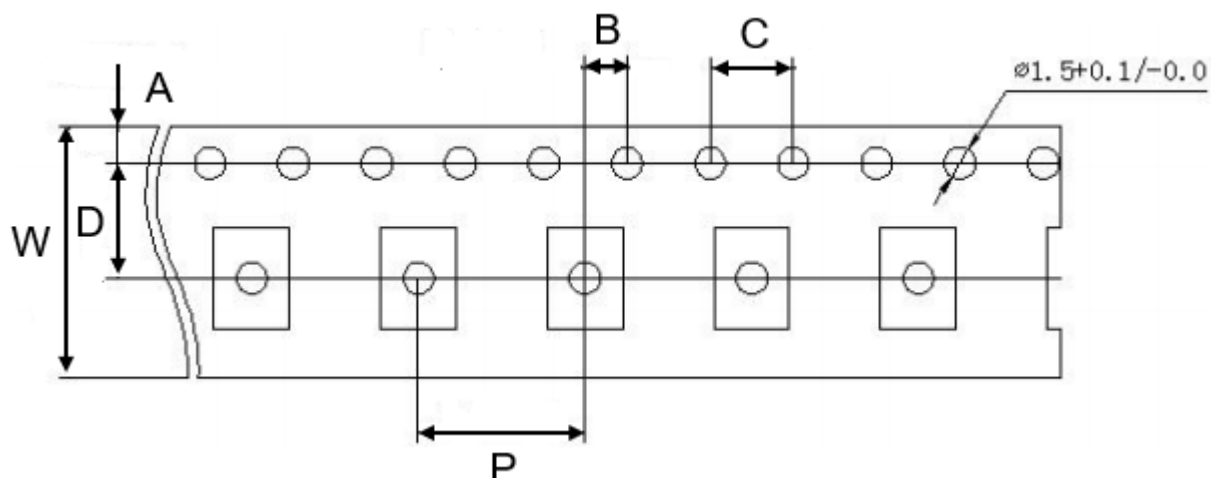
YLM2012D-361T



■ Electrical Characteristic Curve

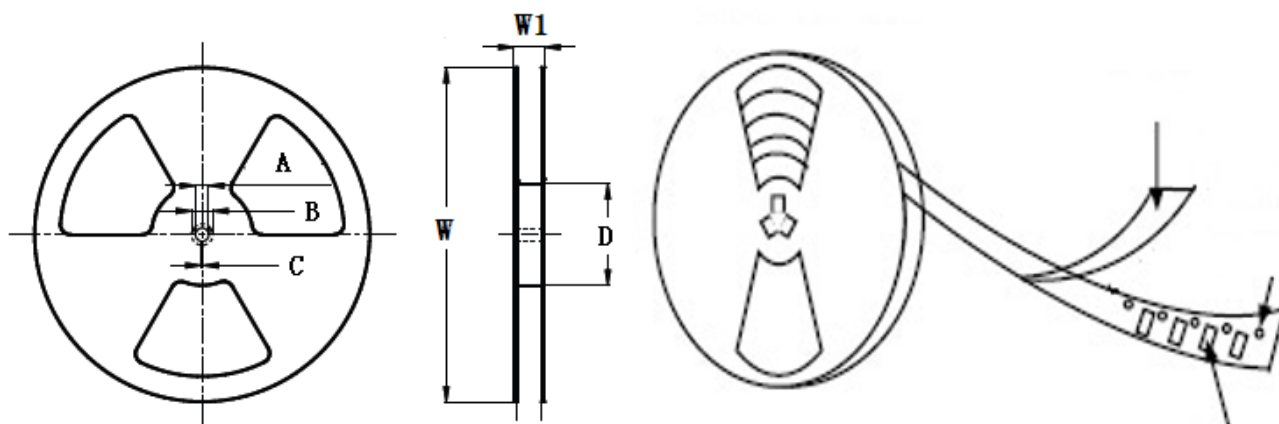


■ Taping Dimensions(Unit:mm)



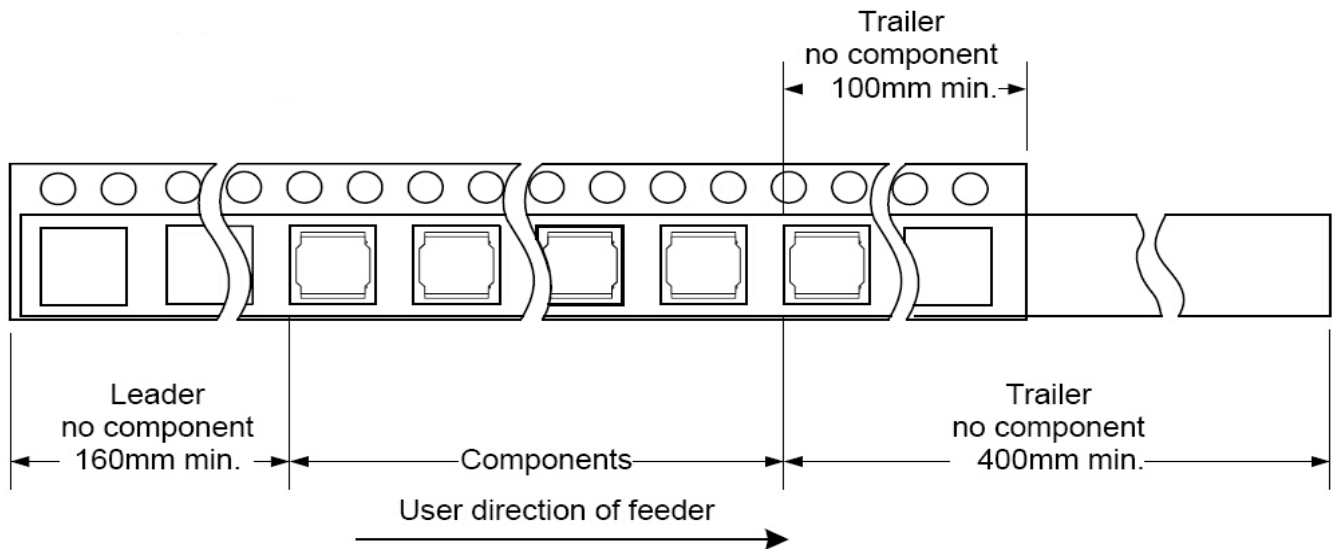
TYPE	W	A	B	C	D	P	MPQ
YLM2012D	8.0 ± 0.2	1.75 ± 0.1	2.0 ± 0.1	4.0 ± 0.1	3.5 ± 0.1	4.0 ± 0.1	2000

■ Reel Dimensions(Unit:mm)

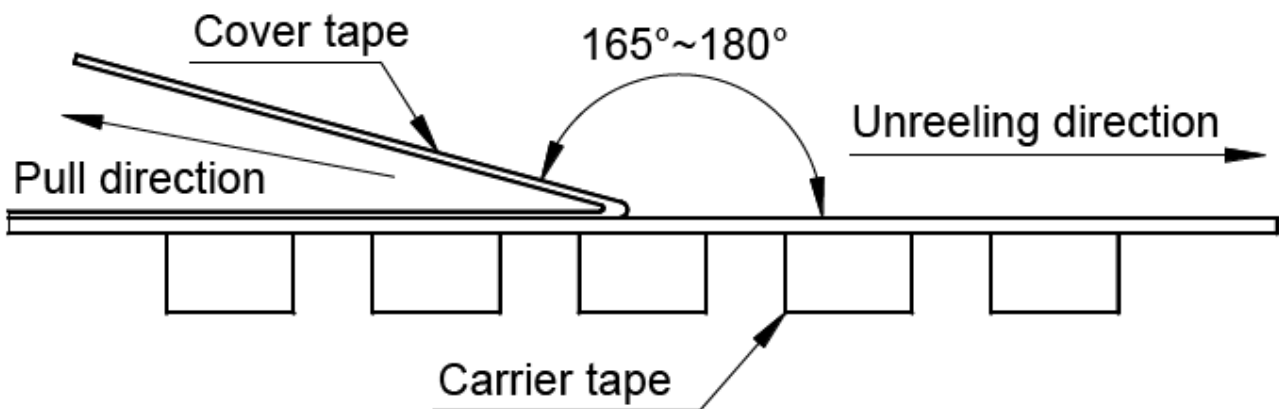


TYPE	W	W1	A	B	C	D
YLM2012D	178 ± 2.0	22.0 ± 2.0	13.0 ± 0.50	21.0 ± 0.80	2.0 ± 0.50	60.0 ± 2.0

■ 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.