

■ Features

- SMD construction, and low profile.
- High Impedance and Excellent Frequency Characteristic.
- Self Electromagnetic Shielding.
- Low Magnetic Flux Leakage.

■ Applications

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

■ Product Identification

<u>YLM</u>	<u>□□□□</u>	<u>—□□□</u>	<u>T</u>
(1)	(2)	(3)	(4)

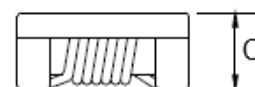
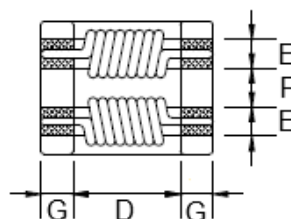
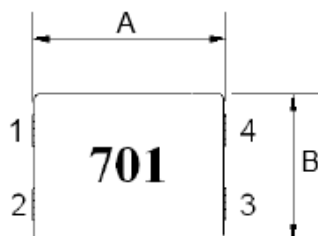
(1) : Type

(2) : Dimensions

(3) : Impedance

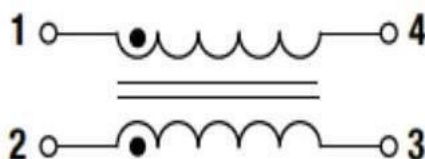
(4) : Taping

■ Shapes and Dimensions (Unit: mm)



TYPE	A	B	C Max	D Typ	E	F	G
YLM1513	15.0±0.5	13.0±0.5	6.5	10.4	2.7±0.2	3.8±0.2	2.3±0.2

■ Circuit Diagram



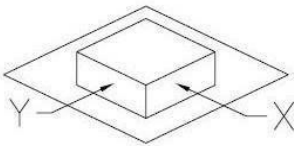
■ YLM1513 Series

Part Number	Z (Ω) @100MHz/0.1V		DCR (N1=N2) (mΩ) Max.	Rated Current (A) max.	Rated Volt. (V)max.	IR(MΩ) min.	Marking
	Min	Typ					
YLM1513-301T	250	300	5	13.0	80	10	301
YLM1513-551T	450	550	6	10.0	80	10	551
YLM1513-701T	500	700	7	10.0	80	10	701
YLM1513-102T	800	1000	8.5	10.0	80	10	102
YLM1513-152T	1100	1500	9	10.0	80	10	152

Material List

NO.	ITEM	DESCRIPTION	SUPPLIER
1	CORE	FERRITE	SINCORES OR EQ
2	WIRE	2UEW P180	PACIFIC OR EQ
3	BASE	LCP	LIANGCHENG OR EQ
4	SOLDER	Sn Cu	SHENYUAN OR EQ
5	EPOXY	661	QIFU OR EQ
6	INK	WHITE	BON MARK

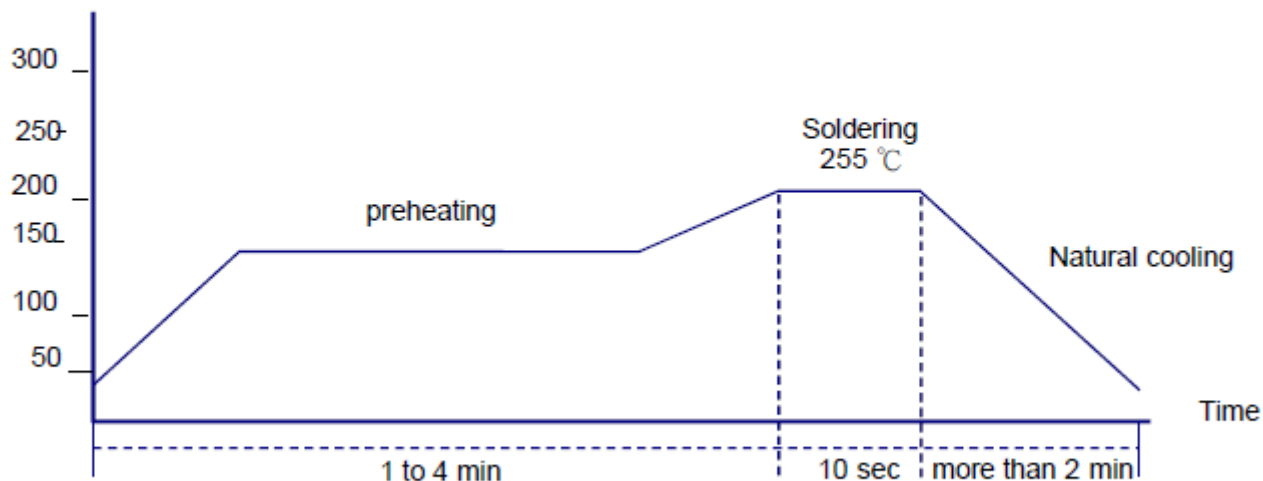
Reliability Testing

Operating Temperature	- 30 to + 100 °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(- 30 ~ + 100 °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

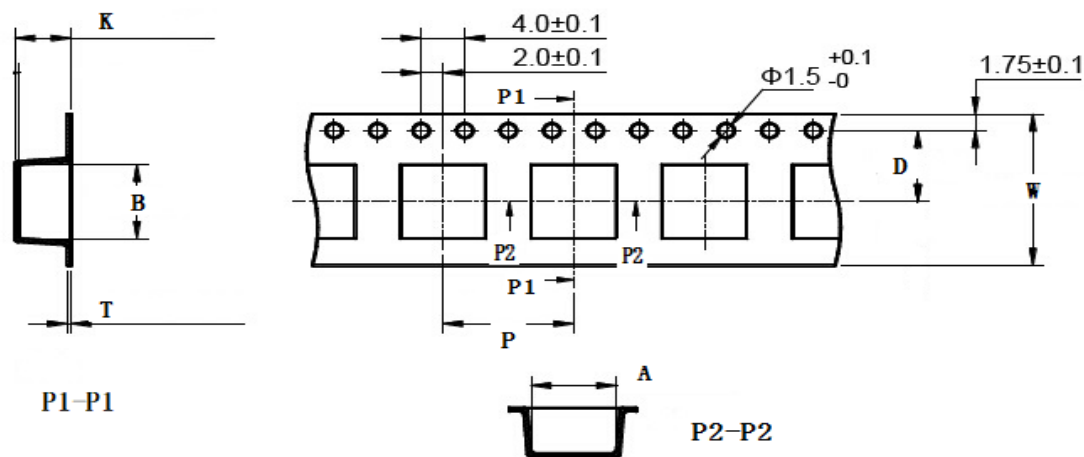
IR Reflowprofile

Temperature℃



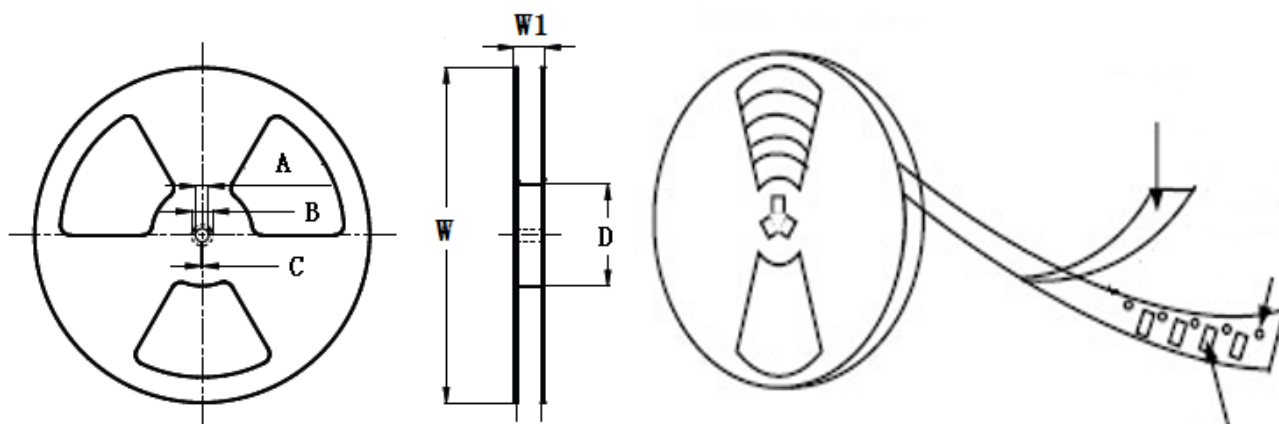
Temperature and humidity . After that , no mechanical and electrical defect should be found .

■ Taping Dimensions(Unit:mm)



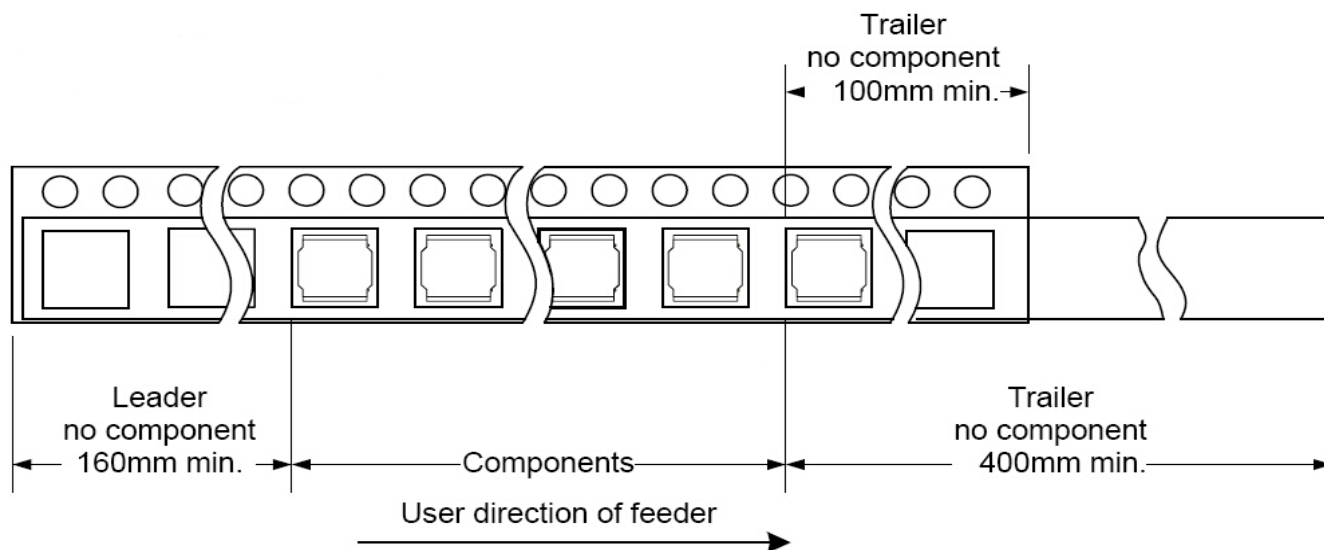
TYPE	W	A	B	D	P	K	T	MPQ
YLM1513	24.0±0.3	7.6±0.1	9.6±0.1	7.5±0.1	16.0±0.1	5.1±0.1	0.35±0.05	500

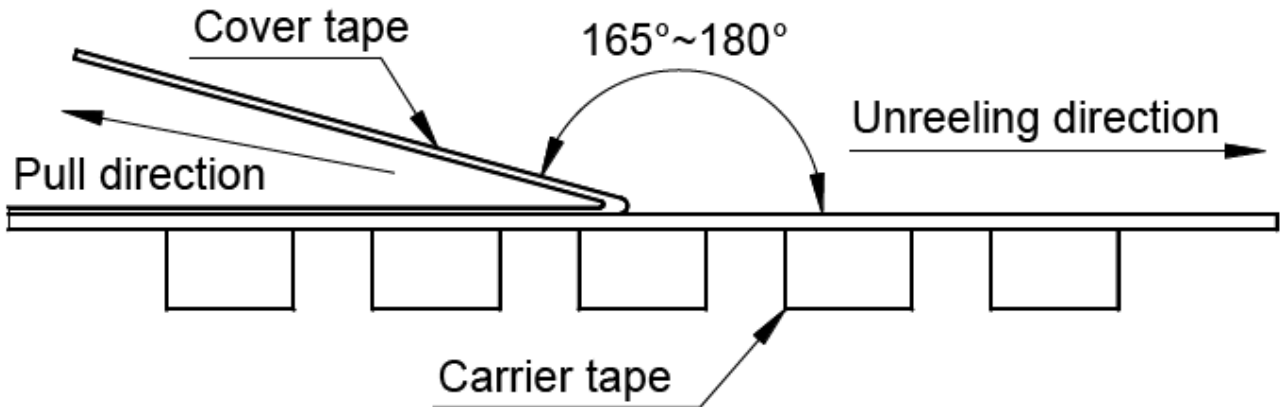
■ Reel Dimensions(Unit:mm)



TYPE	W	W1	A	B	C	D
YLM1513	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 $300 \pm 10 \text{ mm/min}$.