Wire Wound Common Mode Choke
-YLCM0503S Series

■ Features

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

■ Applications

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

■ Product Identification

YLCM □□□□□－□□□ T
(1) (2) (3) (4)

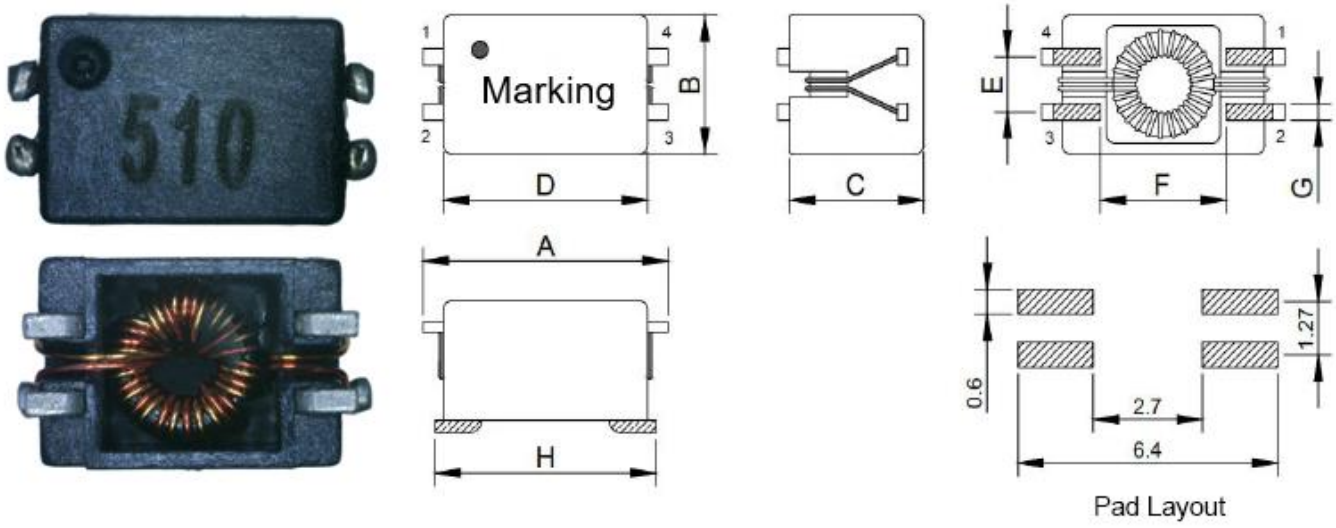
(1)： Type

(2)： Dimensions

(3)： Inductance Value

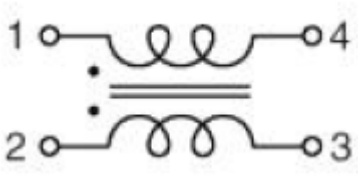
(4)： Taping

■ Shapes and Dimensions (Unit：mm)



TYPE	A	B	C	D	E Typ.	F Typ.	G Typ.	H Typ.
YLCM0503S	6.0±0.3	3.3±0.2	3.3±0.3	5.0±0.3	1.3	3.1	0.4	5.4

■ Circuit Diagram



Planeness:0.1mm Max.

■ YLCM0503S Series

Part Number	Inductance 1-4=2-3(uH) @10KHz/0.1V	DC Resistance (Ω)Max.	Rated Current (A)Max.	Hi-Pot (Vac) 3mA/1S	Rated Voltage (V)Typ	Impedance (Ω)Min.
YLCM0503S-110T	11＋50%/-30%	0.18	0.30	250	80	800
YLCM0503S-220T	22＋50%/-30%	0.23	0.30	250	80	1500
YLCM0503S-330T	33＋50%/-30%	0.27	0.30	250	80	2000
YLCM0503S-510T	51＋50%/-30%	0.32	0.30	250	80	2500
YLCM0503S-101T	100＋50%/-30%	0.58	0.30	250	80	4000
YLCM0503S-471T	470＋50%/-30%	0.35	0.30	250	80	2200

1. Rated Current：Temp.rise 40℃ Typ

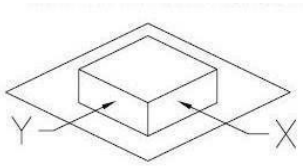
2. Operating Temperature：-40℃ up to +125℃

3.Storage Temperature：-20℃ up to +40℃，75% RH max.

■ Materlal List

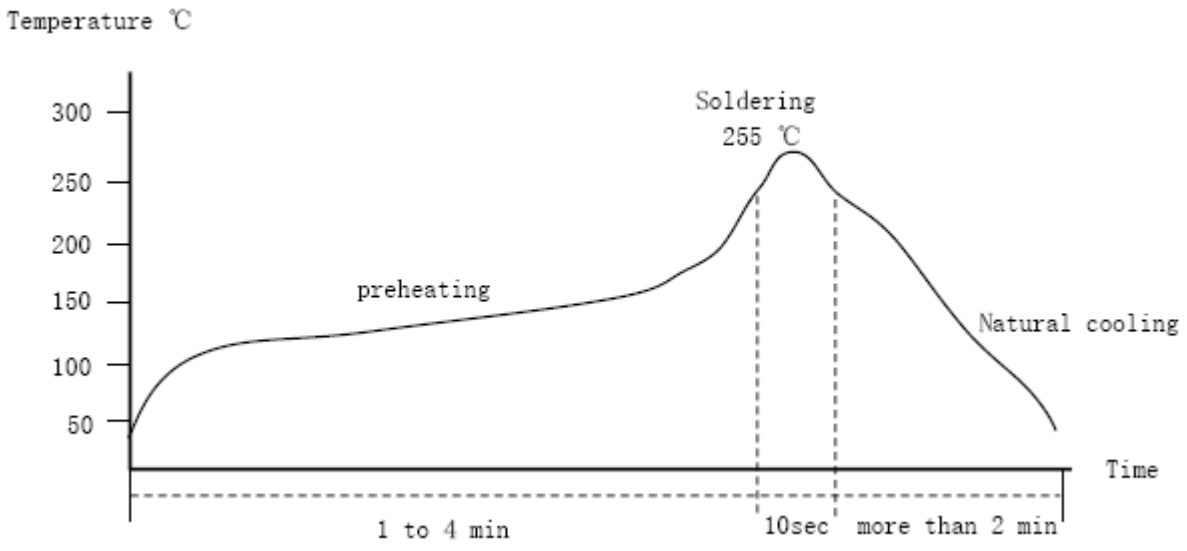
NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	CASE	LCP+C5191
3	WIRE	P180 Grd1
4	SOLDER	Sn99.3:Cu0.7
5	ADHESIVE	XNR-3614

■ Reliability Testing

Operating Temperature	- 40 to + 125 ℃ (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) for 10+/-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 0.25KV 3mA for 1 minute between wire and core .
Temperature characteristics	Inductance coefficient (0~2,000) × 10 / ℃(- 40 ~ + 125 ℃)
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 ℃ 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	

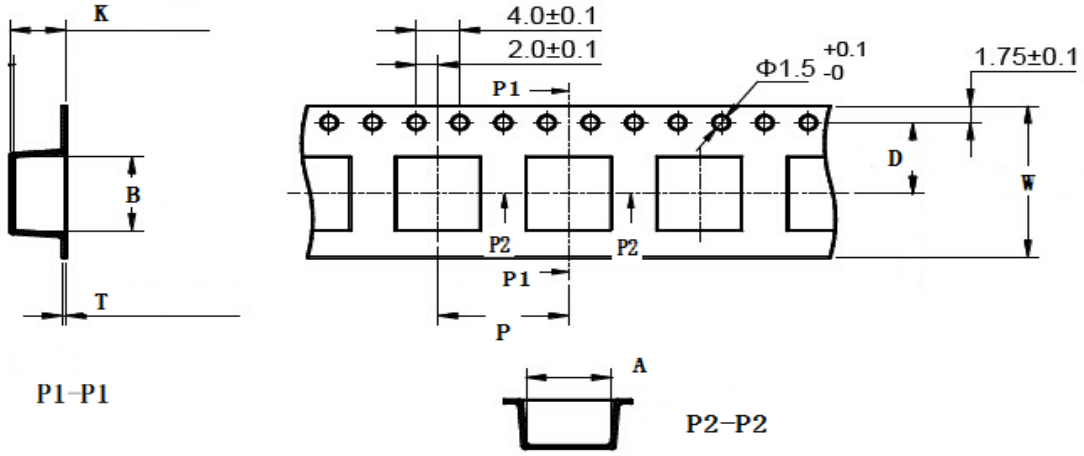
■ Recommended soldering temp.Graph

IR Reflow profile



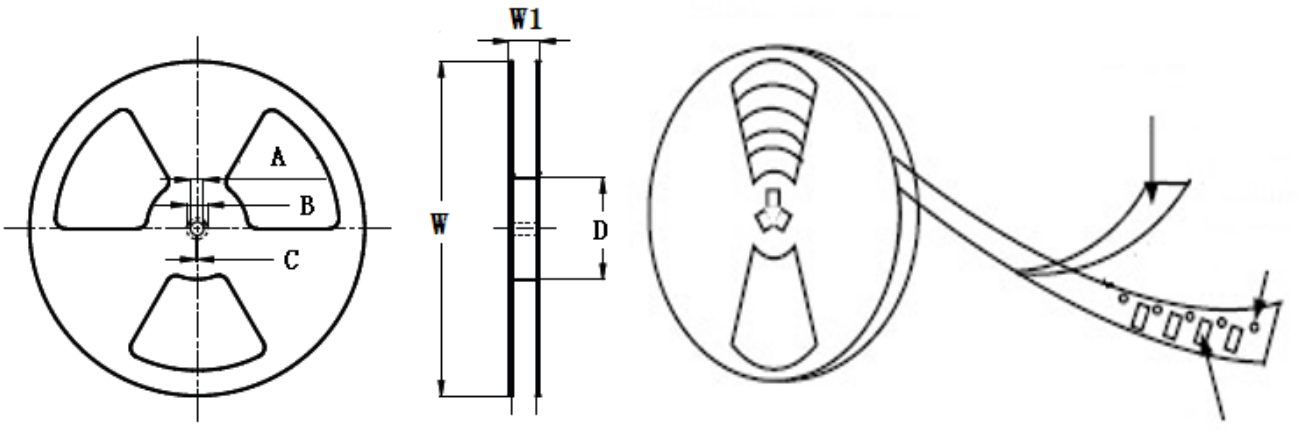
Temperature and humidity. After that,no mechanical and electrical defect should be found.

■ Taping Dimensions(Unit:mm)



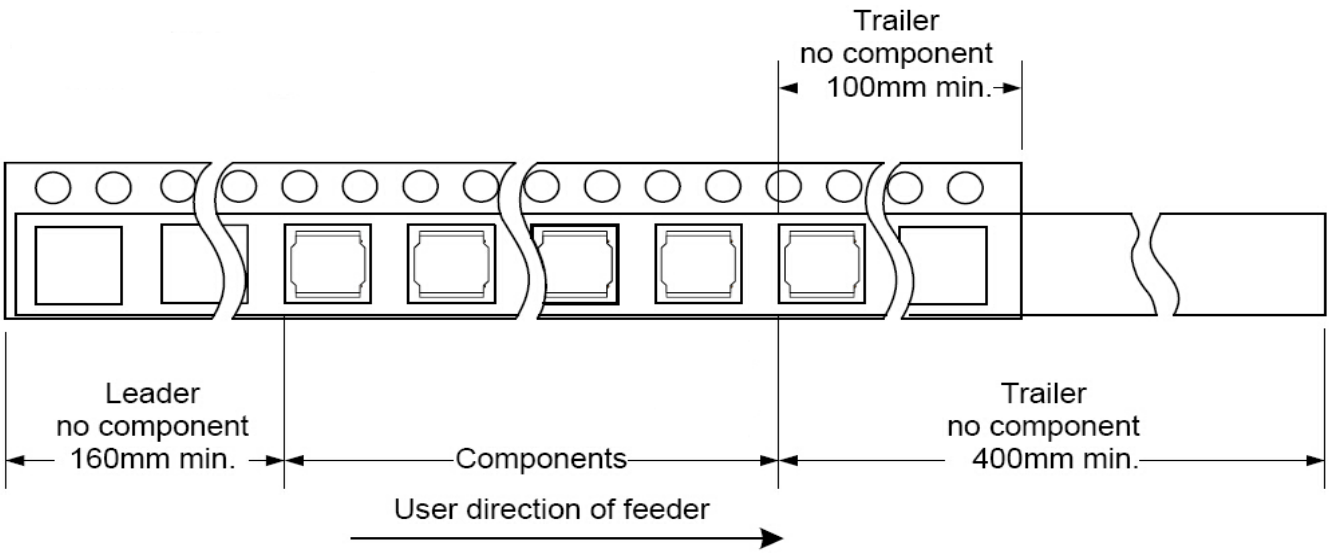
TYPE	W	A	B	D	P	K Max	T Max	MPQ
YLCM0503S	16.0	6.40	6.40	7.50	8.00	4.70	0.40	2000

■ Reel Dimensions(Unit:mm)

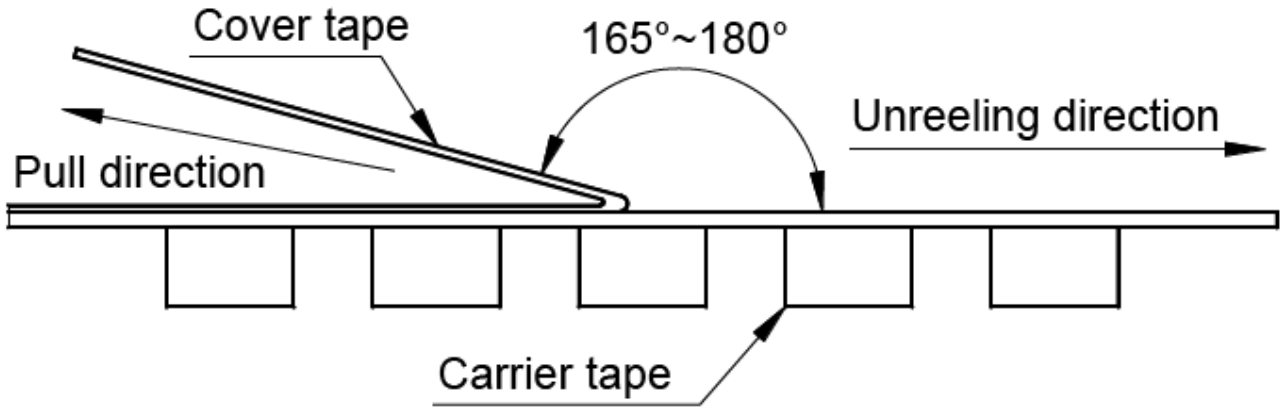


TYPE	W	W1	A	B	C	D
YLCM0503S	330±2.0	16.5±1.50	13.0±0.50	21.0±0.80	2.0±0.50	100 Min

■ 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.