Wire Wound Common Mode Choke
-YLCM0904 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 (1) □□□□ (2) −□□□ (3) T (4)

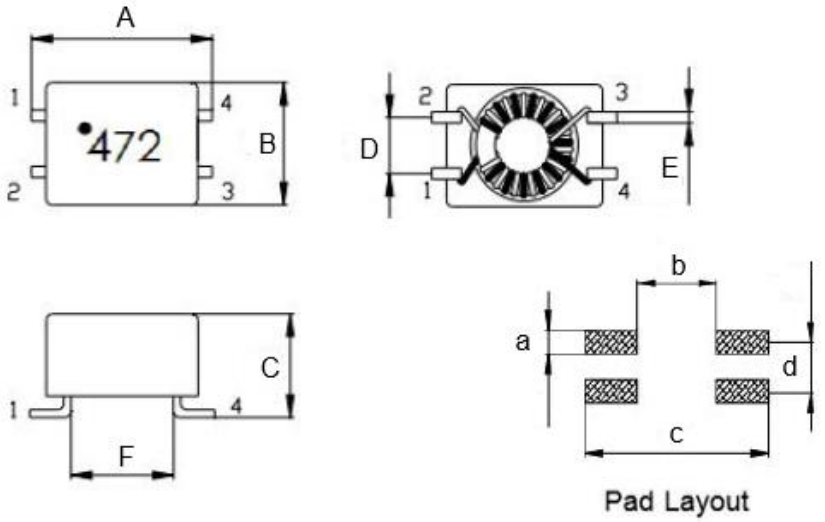
(1)： Type

(2)： Dimensions

(3)： Inductance Value

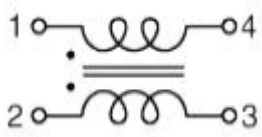
(4)： Taping

■ Shapes and Dimensions (Unit：mm)



TYPE	A Max.	B Max.	C Max.	D Typ.	E Typ.	F Typ.	a Typ.	b Typ.	c Typ.	d Typ.
YLCM0904	9.50	5.60	5.20	2.54	0.50	5.50	1.00	4.50	10.50	2.54

■ Circuit Diagram



■ YLCM0904 Series

Part Number	Inductance +50%/-30% @100KHz/0.1V	Leakage Inductance L1-4(2-3short) @100KHz/0.1V	DC Resistance (mΩ)Max.	Current Rating (A)	Impedance (Ω)Min.	Freq. Range (MHz)	Rated Volt.(Vdc) Max.
YLCM0904-110T	11 uH	0.08 uH Typ	120	1.0	160	20-300	50V
YLCM0904-250T	25 uH	0.15 uH Typ	200	0.9	450	20-150	50V
YLCM0904-510T	51 uH	0.20 uH Typ	300	0.8	800	20-100	50V
YLCM0904-101T	100 uH	0.25 uH Typ	100	0.7	600	3-20	50V
YLCM0904-471T	470 uH	0.28 uH Typ	280	0.7	1200	2-15	50V
YLCM0904-102T	1000 uH	0.28 uH Typ	300	0.7	1800	1-10	50V
YLCM0904-222T	2200 uH	0.29 uH Typ	400	0.5	3000	0.8-5	50V
YLCM0904-472T	4700 uH	0.30 uH Typ	700	0.4	5000	0.5-3	50V

1. Rated Current：Temp.rise 40℃ Typ

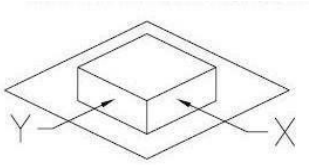
2. Operating Temperature：-40℃ up to +85℃

3.Storage Temperature：-40℃ up to +85℃

■ Materlal List

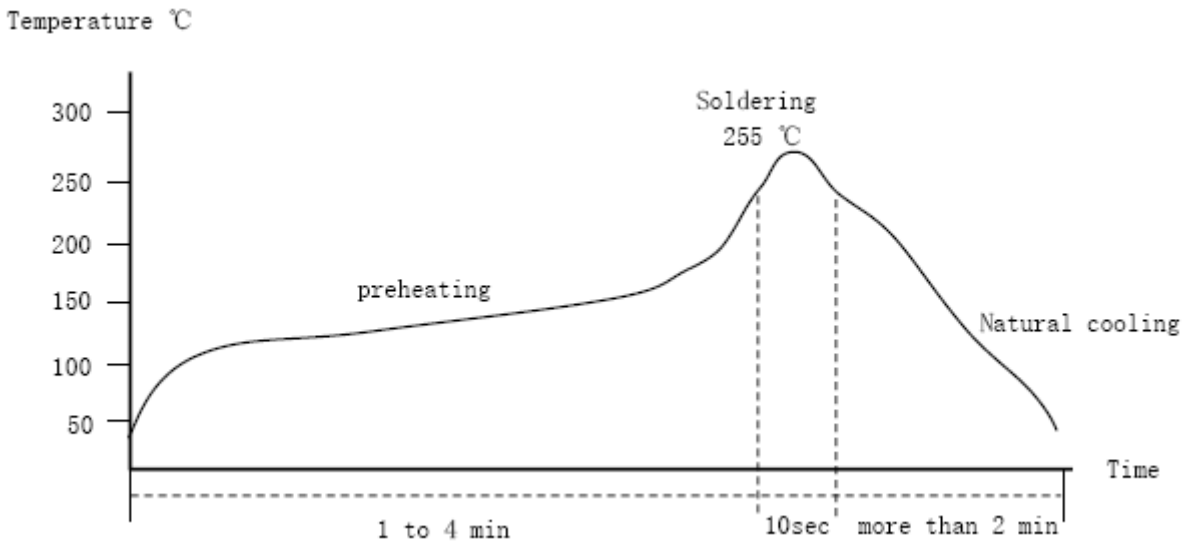
NO.	ITEM	DESCRIPTION	SUPPLIER
1	CORE	FERRITE	FENGYIN OR EQ
2	CASE	PM-9630	SHUO CHENG OR EQ
3	WIRE	P180 Grd1	ELEKTRISOLA OR EQ
4	ADHESIVE	XNR3614	CHANGLAI OR EQ
5	TIN	107H	SHENMAO OR EQ
6	INK	WHITE	BON MARQUE OR EQ

■ Reliability Testing

Operating Temperature	- 40 to + 85 ℃ (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 / ℃(- 20 ~ + 80 ℃)
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	

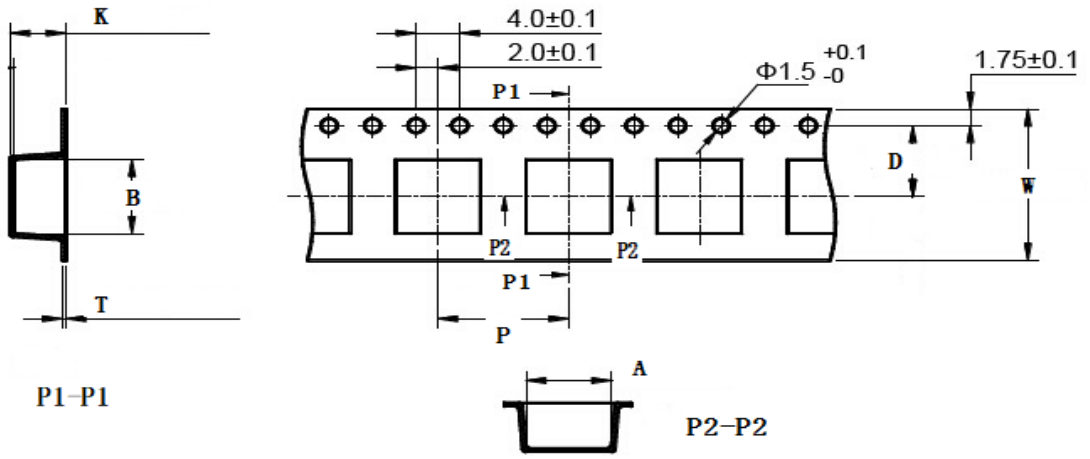
■ Recommended soldering temp.Graph

IR Reflow profile



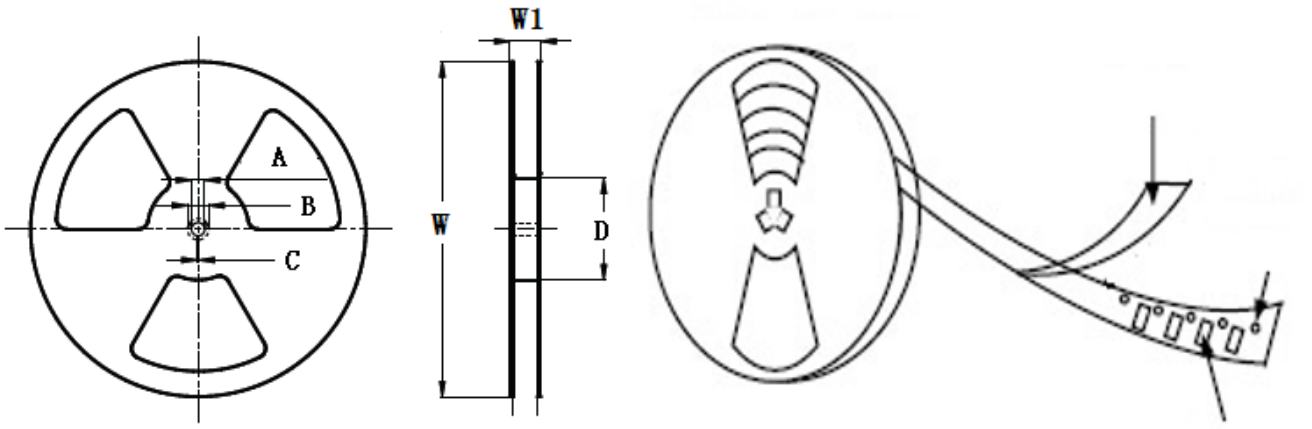
Temperature and humidity. After that,no mechanical and electrical defect should be found.

■ Taping Dimensions(Unit:mm)



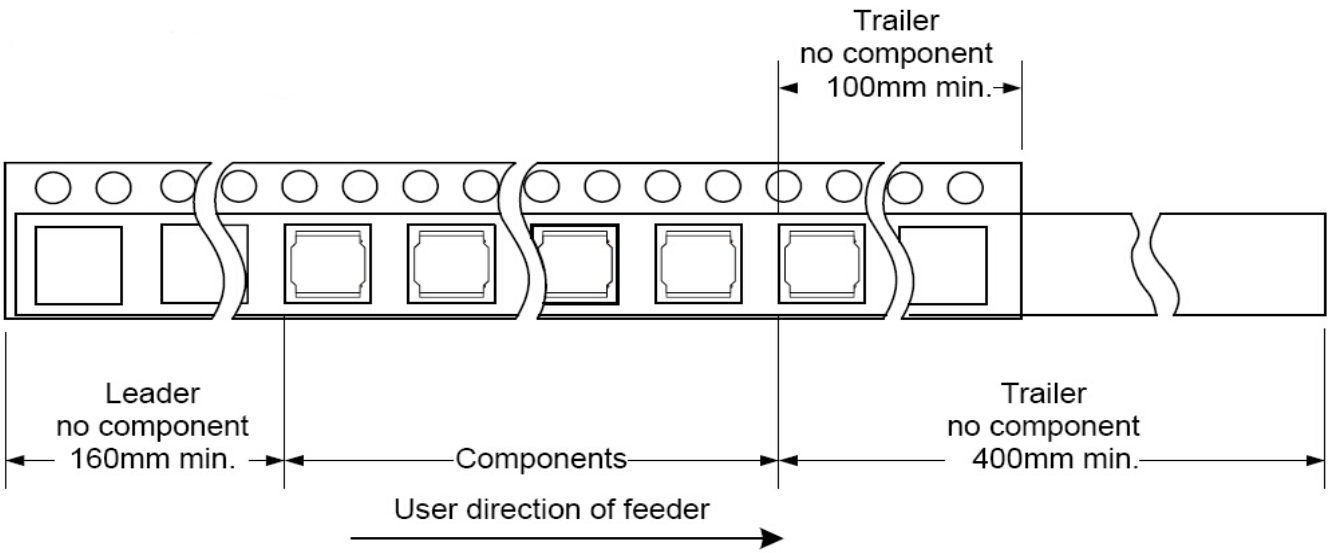
TYPE	W	A	B	D	P	K	T	MPQ
YLCM0904	16.0±0.3	6.4±0.3	6.4±0.1	7.5±0.1	8.0±0.1	5.0±0.1	0.40±0.05	1500

■ Reel Dimensions(Unit:mm)

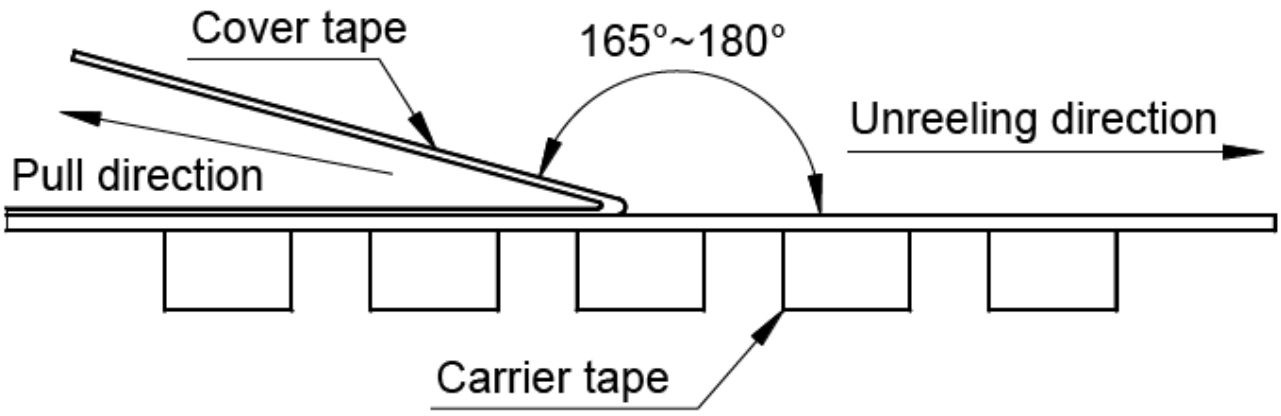


TYPE	W	W1	A	B	C	D
YLCM0904	330±2.0	24.4±1.5	30.4MAX	23.9 Min	13.0±0.50	21.0±0.80

■ 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.