

■ Features

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

■ Applications

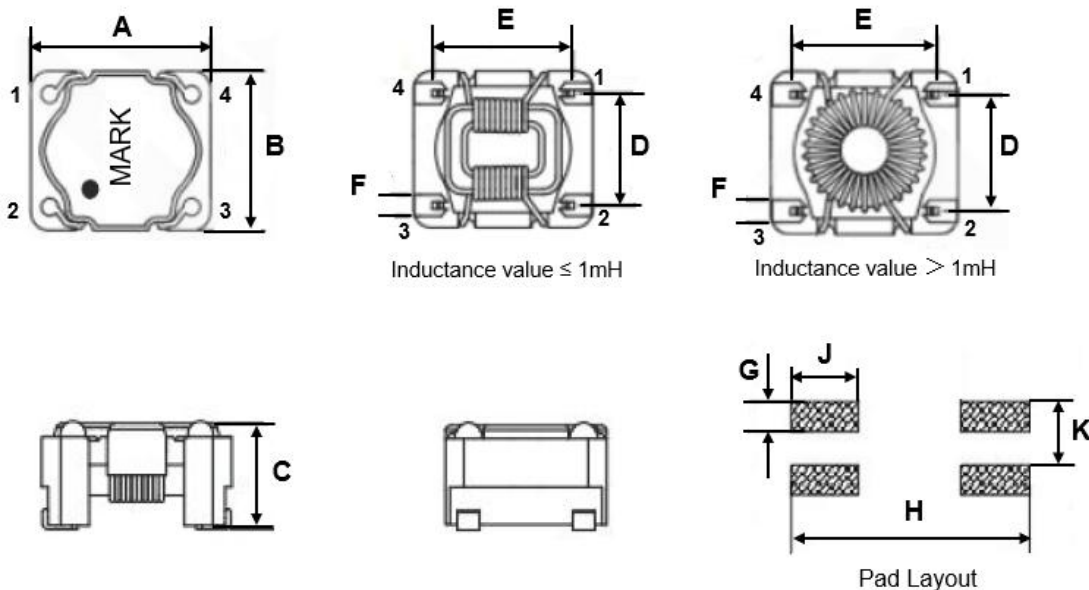
- LED Light, TV game, Monitor, etc.
- EMI common-mode noise.

■ Product Identification

YLCM □□□□□ - □□□ T
 (1) (2) (3) (4)

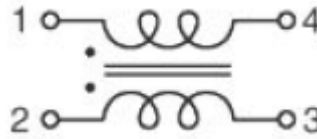
- (1) : Type
- (2) : Dimensions
- (3) : Inductance Value
- (4) : Taping

■ Shapes and Dimensions (Unit: mm)



TYPE	A	B	C	D Typ.	E Typ.	F Typ.	G Ref.	H Ref.	J Ref.	K Ref.
YLCM1006C	10.0±0.5	8.7±0.5	6.5	6.22	7.62	1.4	2.7	10.32	2.7	8.92

■ Circuit Diagram



■ YLCM1006C Series

Part Number	Inductance 1-4=2-3(uH) @100KHz/0.1V	DCR 1-4=2-3 (mΩ)Max.	Rated Current (A)Max.	Hi-Pot 1,4-2,3(Vac) 3mA/1S	Impedance (Ω)	Freq. Range (MHz)
YLCM1006C-5R0T	5±50%	10	5.0	500	500 Max.	108
YLCM1006C-9R0T	9±50%	11	3.5	500	800 Max.	105
YLCM1006C-100T	10±40%	30	4.0	600	100 Min.	10~300
YLCM1006C-220T	22±40%	35	3.8	600	300 Min.	10~200
YLCM1006C-470T	47±40%	40	3.2	600	800 Min.	10~100
YLCM1006C-600T	60±40%	20	3.0	1000	300 Typ.	10
YLCM1006C-101T	100±40%	25	3.0	1000	100 Min.	10~300
YLCM1006C-121T	120±40%	25	2.5	1000	200 Min.	10~200
YLCM1006C-201T	200±40%	32	3.0	1000	300 Min.	7~150
YLCM1006C-221T	220±40%	32	2.2	1000	350 Min.	7~150
YLCM1006C-251T	250±40%	35	2.0	1000	400 Min.	5~100
YLCM1006C-331T	330±40%	48	2.5	1000	500 Min.	5~100
YLCM1006C-471T	470±40%	65	1.6	1000	900 Min.	2~40
YLCM1006C-501T	500±40%	70	1.5	1000	800 Min.	2~50
YLCM1006C-102T	1000±40%	180	0.95	1000	1400 Min.	1~40
YLCM1006C-202T	2000±40%	270	0.80	300	2000 Min.	0.5~15
YLCM1006C-222T	2200±40%	300	0.75	300	3400 Min.	1~11
YLCM1006C-302T	3000±40%	330	0.70	300	3000 Min.	0.5~10
YLCM1006C-332T	3300±40%	360	0.65	300	4400 Min.	0.9~7
YLCM1006C-392T	3900±40%	540	0.52	300	5000 Min.	0.7~6
YLCM1006C-402T	4000±40%	600	0.45	300	4000 Min.	0.5~5
YLCM1006C-472T	4700±40%	720	0.35	300	6200 Min.	0.6~3
YLCM1006C-502T	5000±40%	780	0.30	300	5000 Min.	0.5~3

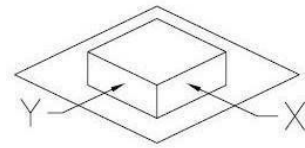
1. Rated Current: Temp.rise 40°C Typ.
2. Operating Temperature: -40°C to +125°C(Self-temperature rise is included).
- 3.Storage Temperature: 15°C to +25°C, 65% RH max.
- 4.The temperature of electrical characteristic test is 25°C indoor temperature.

Material List

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	CASE	PLASTIC+C5191(PIN)
3	WIRE	UEW-H
4	SOLDER	LEAD-FREE
5	ADHESIVE	EPOXY RESIN
6	INK	BLACK

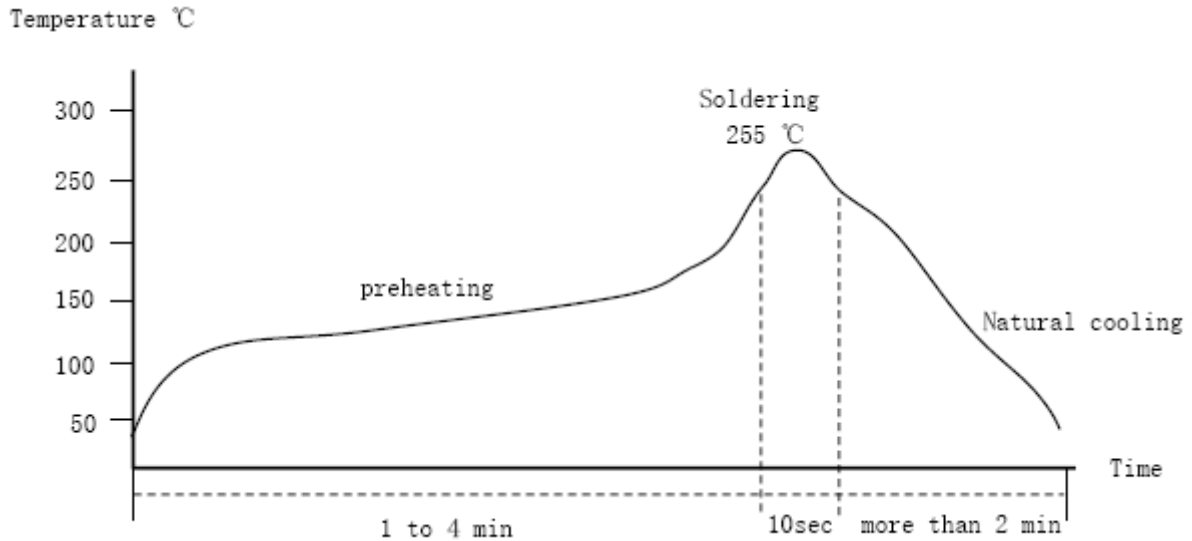
Reliability Testing

Operating Temperature	- 40 to + 125 °C (Contain Heating coil)
Appearance Inspection	No external defects by visual inspection
Terminal Strength	<p>After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec.</p> <p>Terminal should not peel off. (Refer to figure at right)</p>
Heat endurance of reflow soldering	Refer to figure
Insulating resistance	Over 10 MΩ at 50V D.C . between wire and core .
Dielectric Strength	Apply at 1KV 3mA for 1S between wire and core .
Temperature characteristics	Inductance coefficient (0~2,000) × 10 / °C(- 40 ~ + 125 °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	



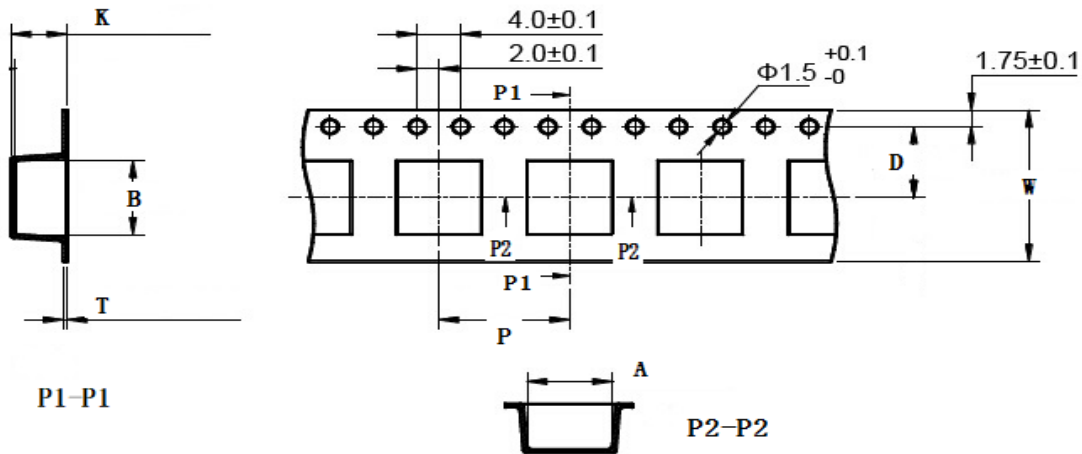
Recommended soldering temp.Graph

IR Reflow profile



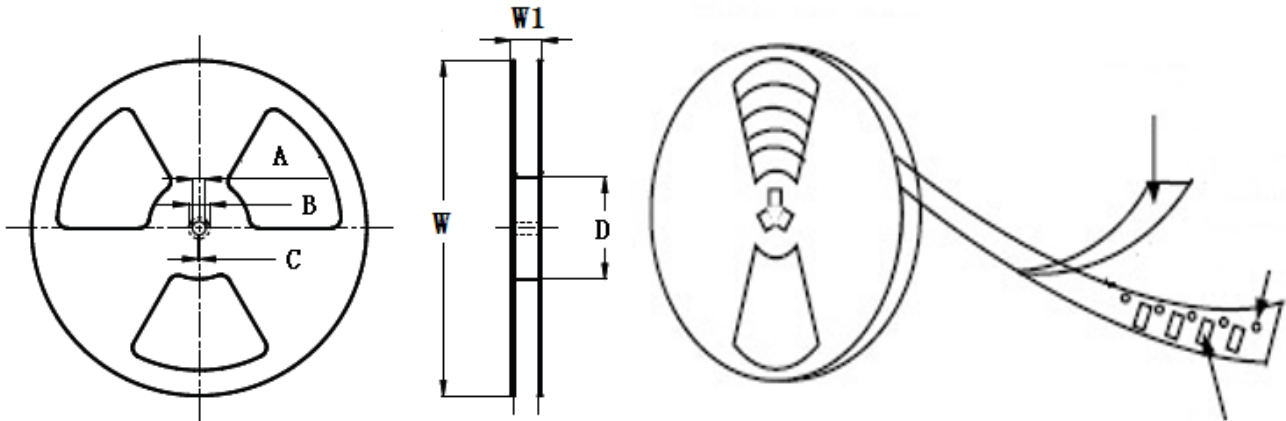
Temperature and humidity. After that, no mechanical and electrical defect should be found.

Taping Dimensions(Unit:mm)



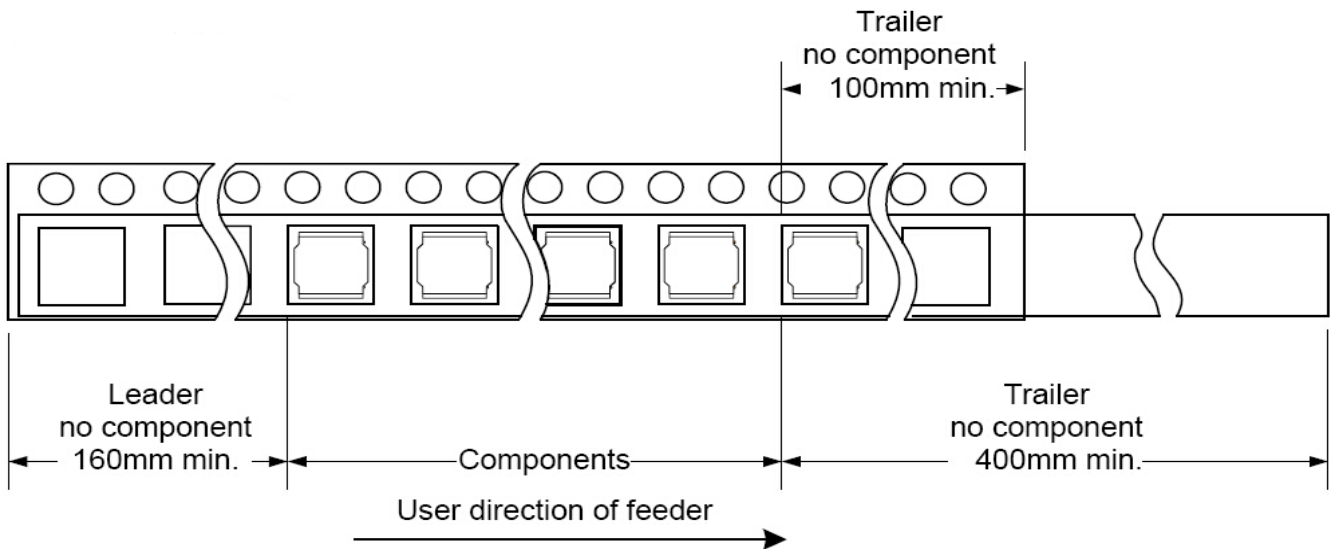
TYPE	W	A	B	D	P	K	T	MPQ
YLCM1006C	24.0±0.3	10.6±0.3	11.5±0.1	11.5±0.1	16±0.1	5.0±0.1	0.40±0.05	800

■ Reel Dimensions(Unit:mm)

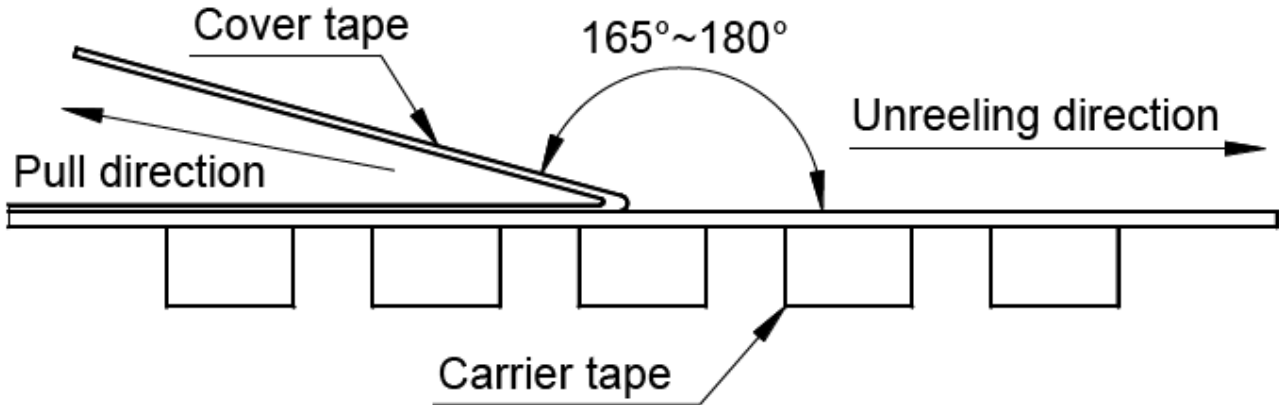


TYPE	W	W1	A	B	C	D
YLCM1006C	330±2.0	24.4±1.5	30.4MAX	23.9 Min	13.0±0.50	21.0±0.80

■ 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.