

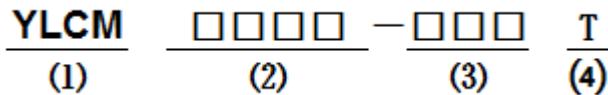
■ Features

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

■ Applications

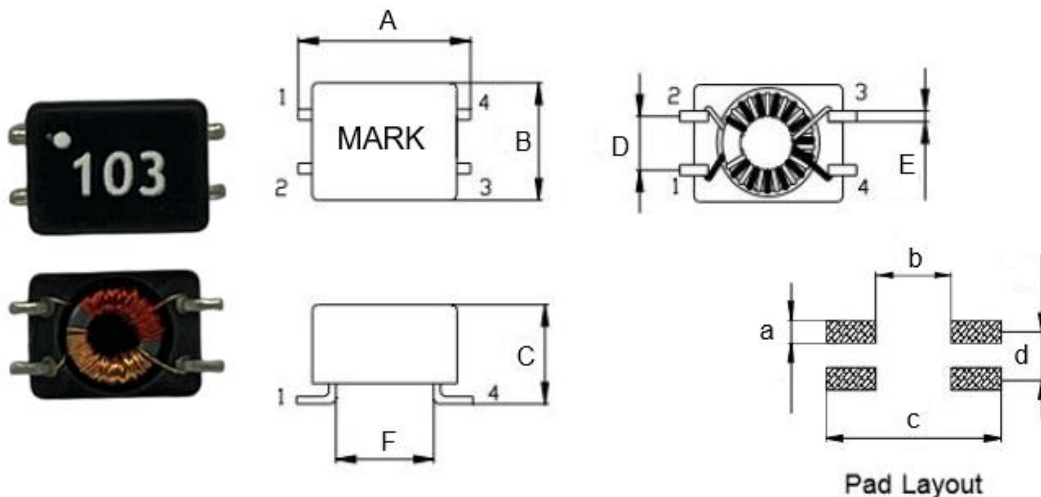
- LED Light, TV game, Monitor, etc.
- EMI common-mode noise.

■ Product Identification



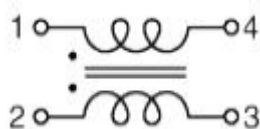
- (1) : Type
- (2) : Dimensions
- (3) : Inductance Value
- (4) : Taping

■ Shapes and Dimensions (Unit: mm)



TYPE	A	B	C Max.	D Typ.	E Typ.	F Typ.	a Typ.	b Typ.	c Typ.	d Typ.
YLCM0904	8.9±0.5	5.4±0.3	5.0	2.54±0.3	0.50	5.50	1.00	4.50	10.50	2.54

■ Circuit Diagram



■ Electrical Characteristic

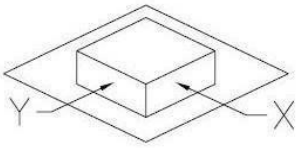
Part Number	Inductance	Test Freq.	DCR (Ω)Max.	IDC (A)	Hi-pot test DC 1mA 2Sec	Mark
YLCM0904-103T	10mH±50%	10KHz/0.05V	1.30	0.35	250V	103

1. Rated Current: Temp.rise 40°C Typ
2. Operating Temperature: -40°C up to +125°C

■ Material List

NO.	ITEM	DESCRIPTION	SUPPLIER
1	CORE	FERRITE	FENGYIN OR EQ
2	CASE	SC-0186	SHUO CHENG OR EQ
3	WIRE	P180 Grd1	ELEKTRISOLA OR EQ
4	EPOXY	E-XNR3614	CHANGLAI OR EQ
5	SOLDER	Sn99.3:Cu0.7	SHENMAO OR EQ
6	INK	WHITE	BON MARQUE OR EQ

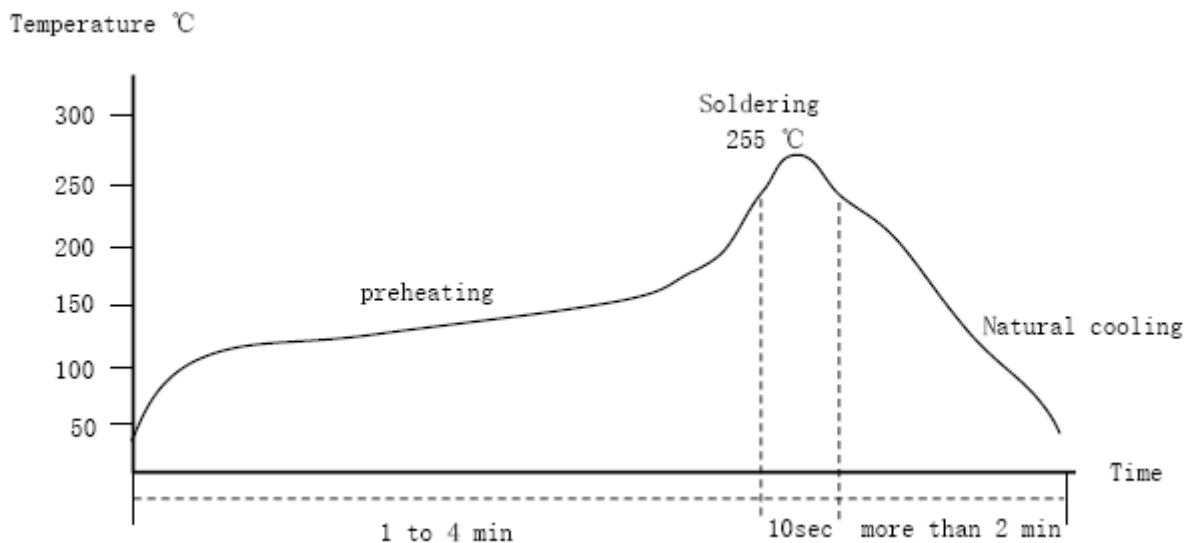
Reliability Testing

Operating Temperature	- 40 to + 125 °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 (- 20 ~ + 80 °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

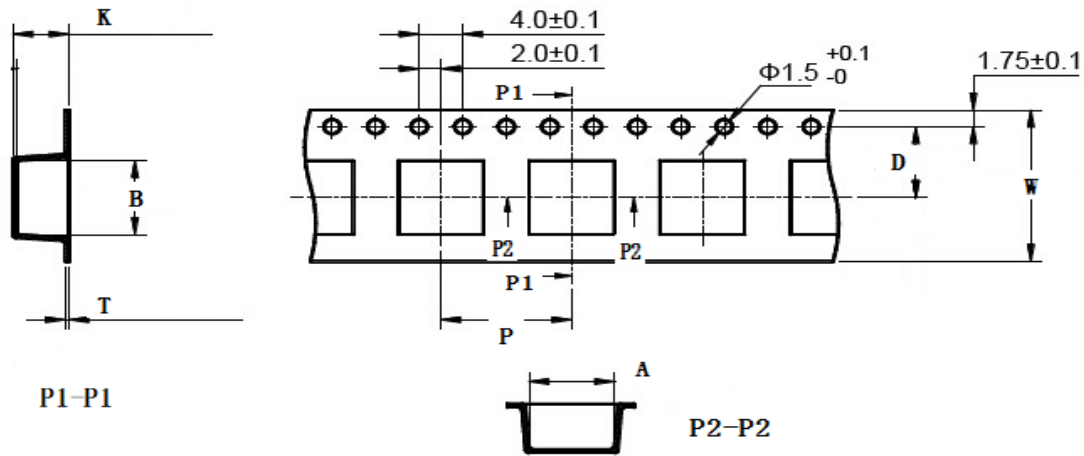
Recommended soldering temp.Graph

IR Reflow profile



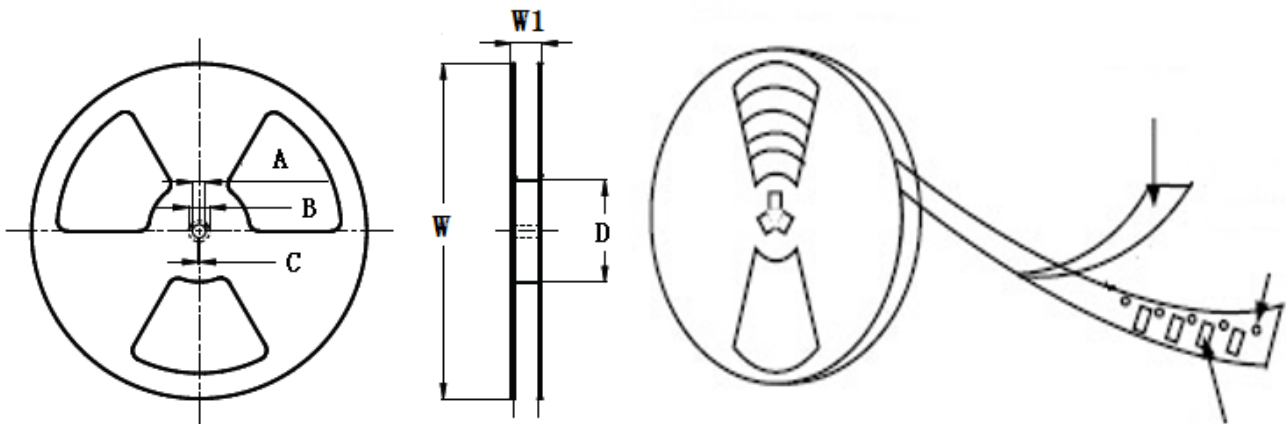
Temperature and humidity. After that,no mechanical and electrical defect should be found.

Taping Dimensions(Unit:mm)



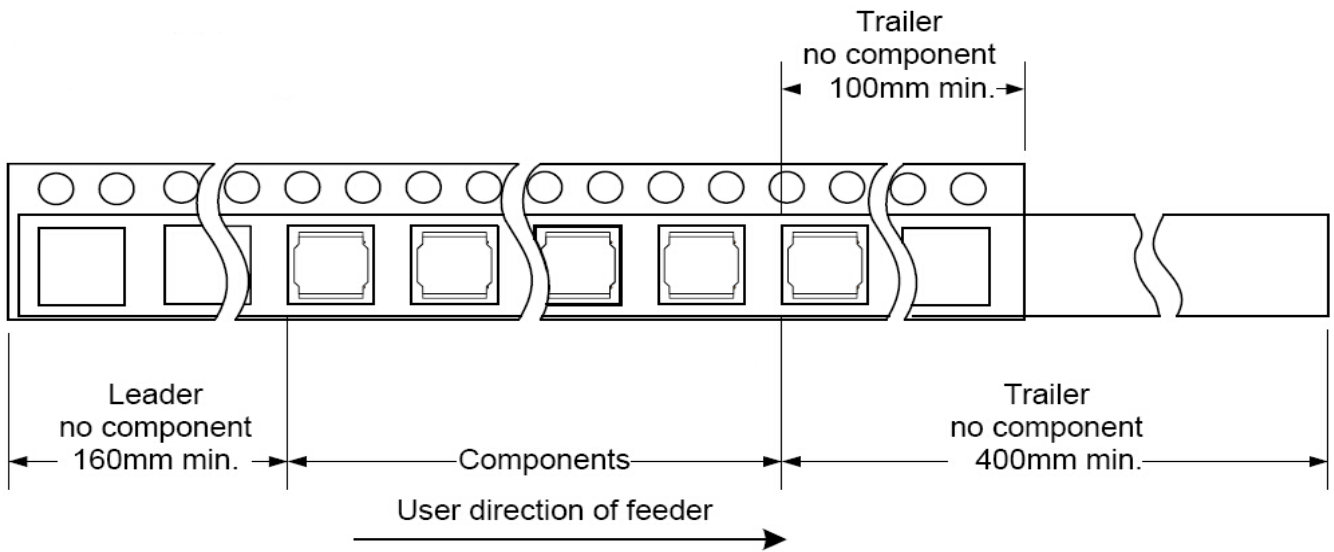
TYPE	W	A	B	D	P	K	T	MPQ
YLCM0904	16.0±0.3	6.4±0.3	6.4±0.1	7.5±0.1	8.0±0.1	5.0±0.1	0.40±0.05	1500

Reel Dimensions(Unit:mm)

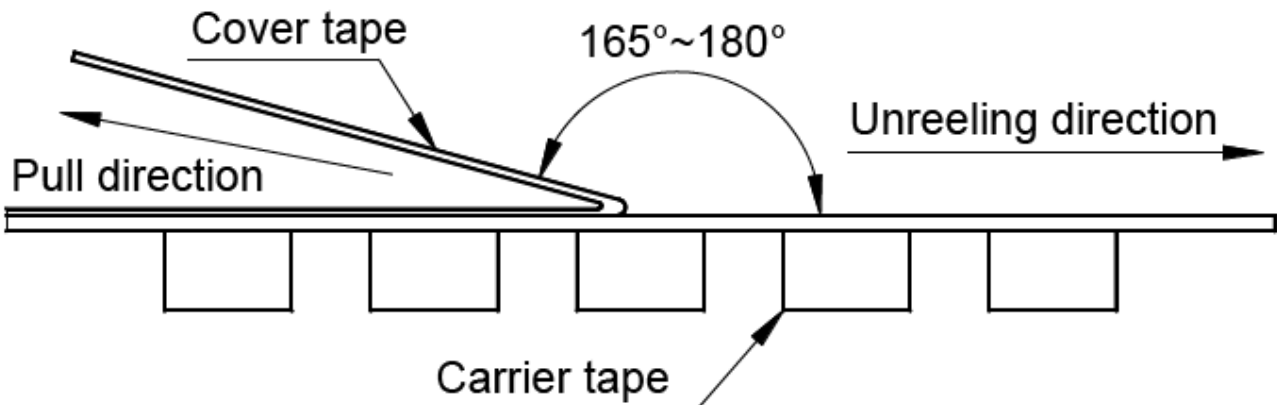


TYPE	W	W1	A	B	C	D
YLCM0904	330±2.0	24.4±1.5	30.4MAX	23.9 Min	13.0±0.50	21.0±0.80

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.