

■ Features

- SMD construction, and low profile.
- High Impedance and Excellent Frequency Characteristic.
- Self Electromagnetic Shielding.
- Low Magnetic Flux Leakage.
- Operating temperature: -40°C to +125°C (Contain Heating coil)

■ Applications

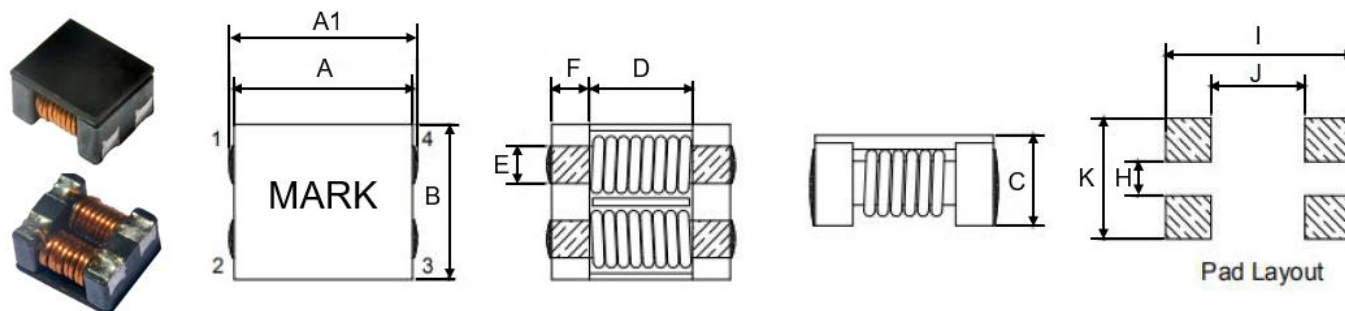
- LED Light, TV game, Monitor, etc.
- EMI common-mode noise.

■ Product Identification

YLCM □□□□□ - □□□ □
 (1) (2) (3) (4)

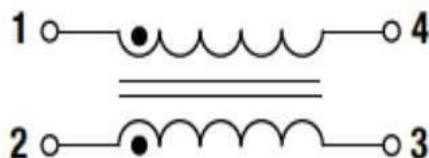
- (1) : Type
- (2) : Dimensions
- (3) : Impedance
- (4) : Taping

■ Shapes and Dimensions (Unit: mm)



TYPE	A	A1	B	C Max.	D Typ.	E Typ.	F Typ.	K Typ.	H Typ.	I Typ.	J Typ.
YLCM9070F	9.0±0.5	9.5±0.5	7.0±0.5	4.8	5.6	1.5	1.7	5.5	1.5	10.5	5.0

■ Circuit Diagram



■ YLCM9070F Series

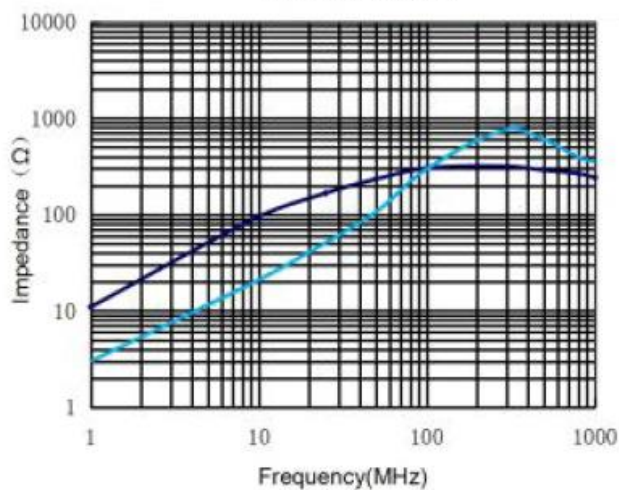
Part Number	Z (Ω)		Test Frequency	DCR (mΩ) Max.	Rated Current (A) max.	Rated Volt. (V)max.	IR 80V/3S (MΩ)min.
	Min.	Typ.					
YLCM9070F-301T	225	300	100MHz	6.0	6.0	80	10
YLCM9070F-501T	450	600	100MHz	8.0	5.5	80	10
YLCM9070F-601T	500	700	100MHz	10.0	5.0	80	10
YLCM9070F-701T	500	700	100MHz	10.0	5.0	80	10
YLCM9070F-102T	750	1000	100MHz	13.0	4.0	80	10
YLCM9070F-152T	1200	1500	100MHz	15.0	4.0	80	10
YLCM9070F-222T	1700	2200	100MHz	50.0	3.0	80	10
YLCM9070F-272T	2000	2700	100MHz	80.0	2.0	80	10
YLCM9070F-302T	2500	3000	100MHz	85.0	1.9	80	10
YLCM9070F-402T	3300	4000	20-50MHz	100	1.8	80	10

■ Material List

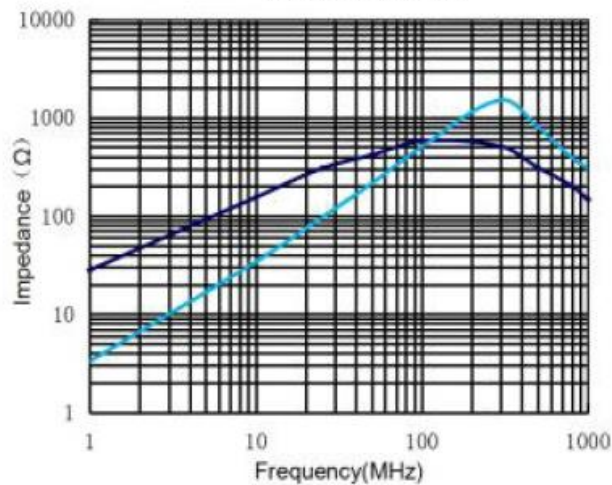
NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	COVER	LCP
3	WIRE	UEW-H
4	ADHESIVE	EPOXY RESIN
5	SOLDER	LEAD-FREE
6	INK	WHITE

■ Characteristics(Reference)

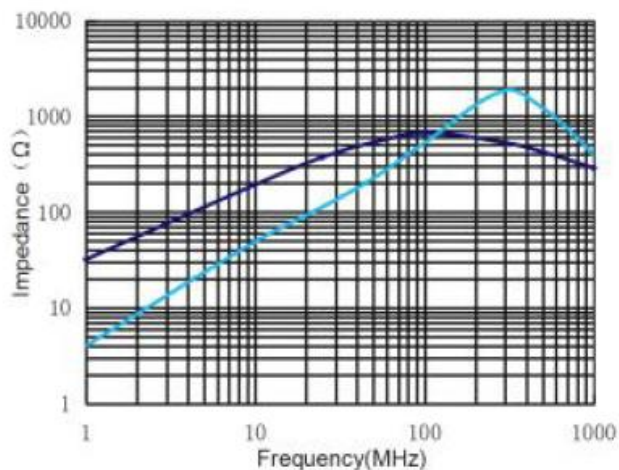
YLCM9070F-301T



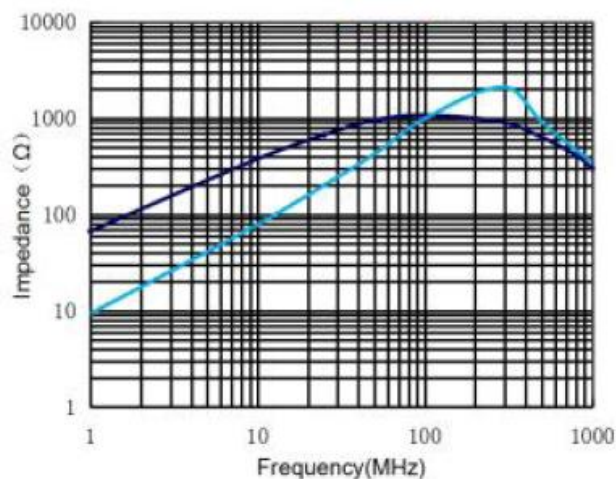
YLCM9070F-501T



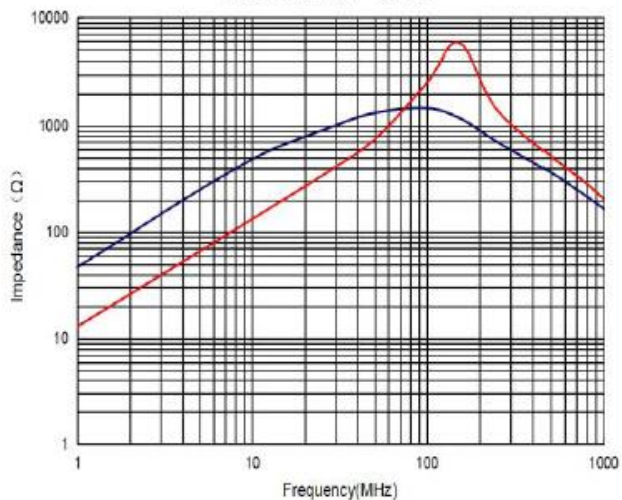
YLCM9070F-601T&701T



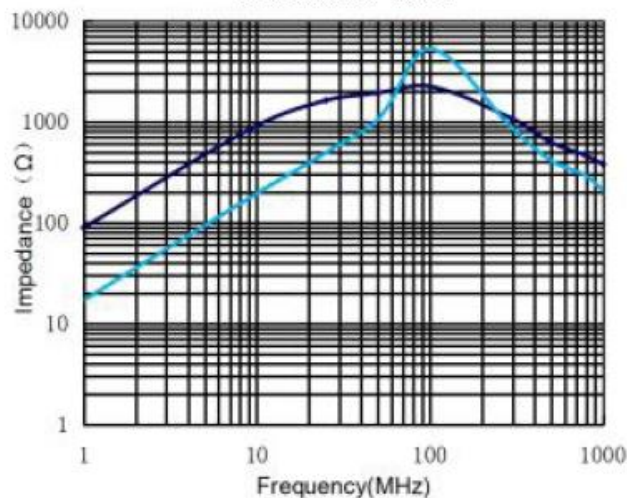
YLCM9070F-102T



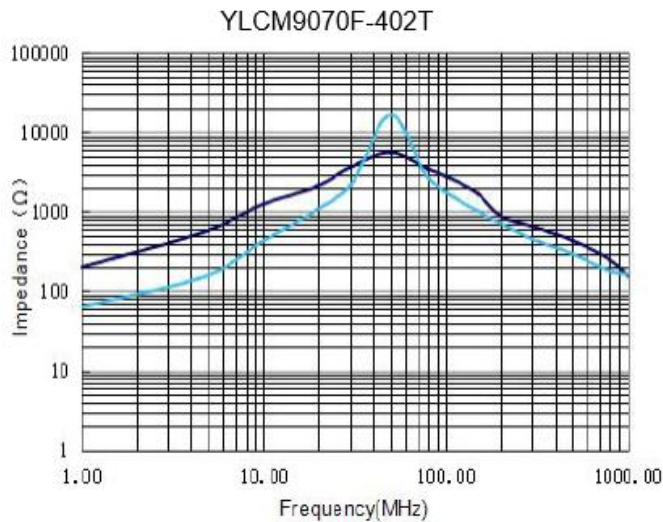
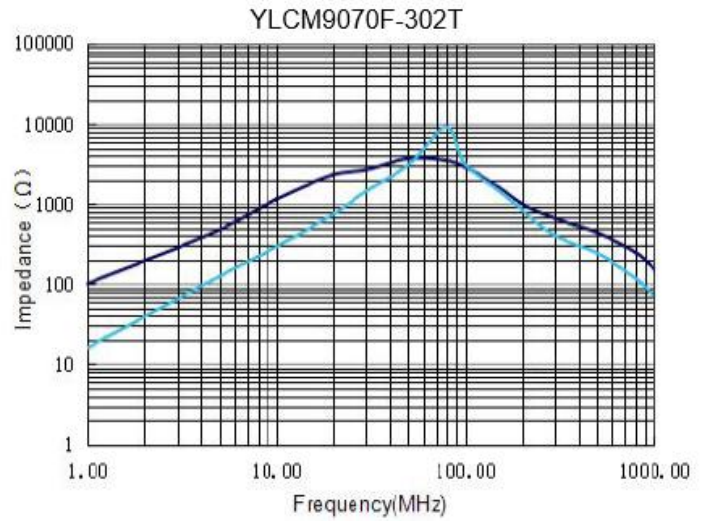
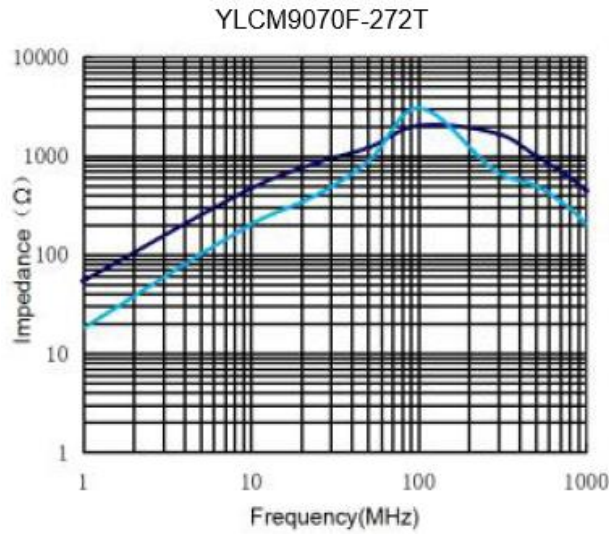
YLCM9070F-152T



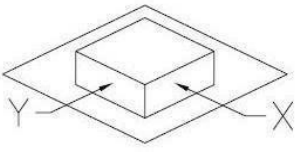
YLCM9070F-222T



■ Characteristics(Reference)

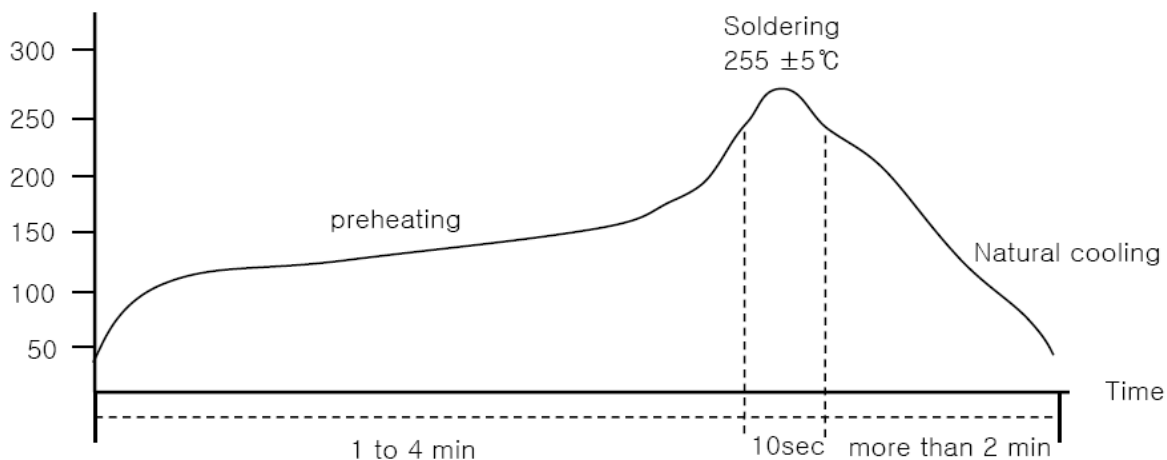


■ Reliability Testing

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 10 MΩ at 80V D.C . between wire and core .
Dielectric Strength	Apply at 0.5KV 1mA for 3S 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	

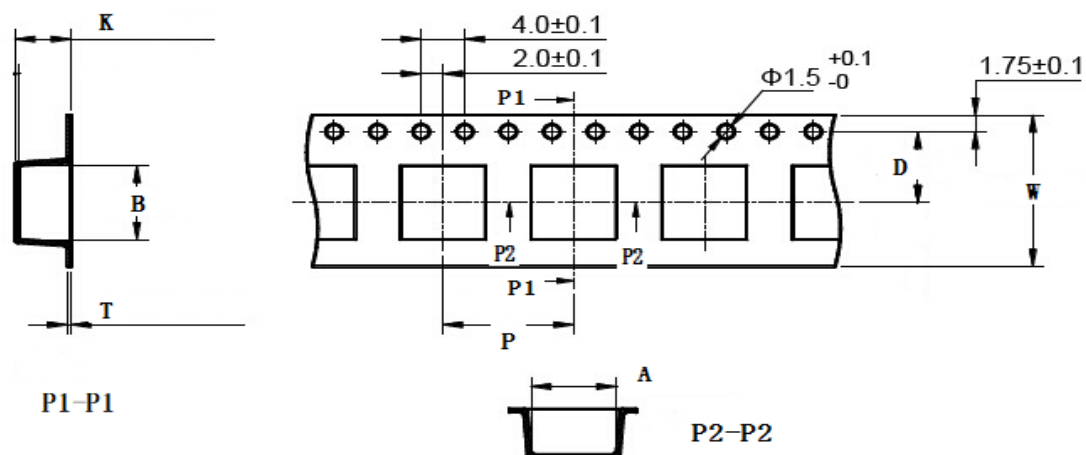
■ Recommended soldering temp.Graph

Temperature °C



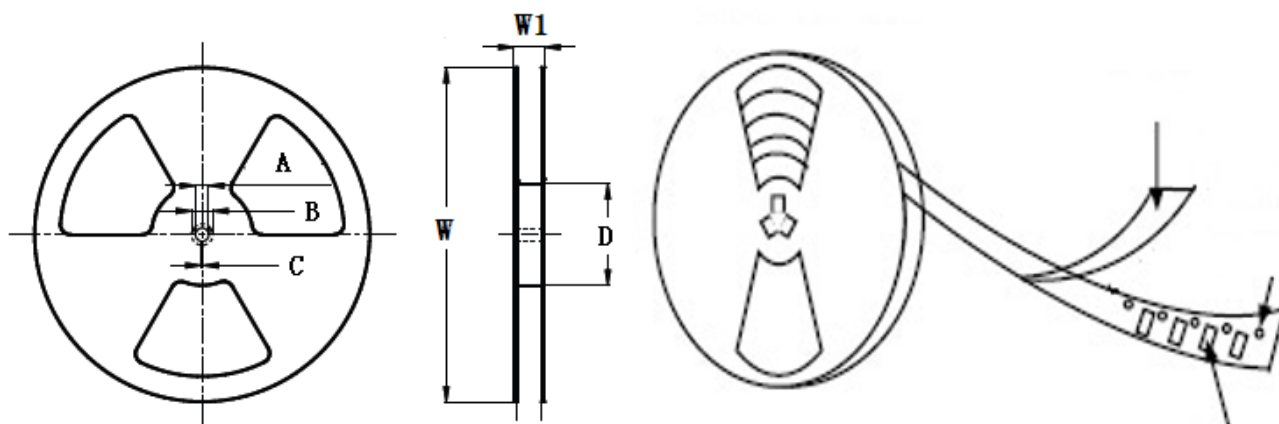
Temperature and humidity . After that , no mechanical and electrical defect should be found .

Taping Dimensions(Unit:mm)



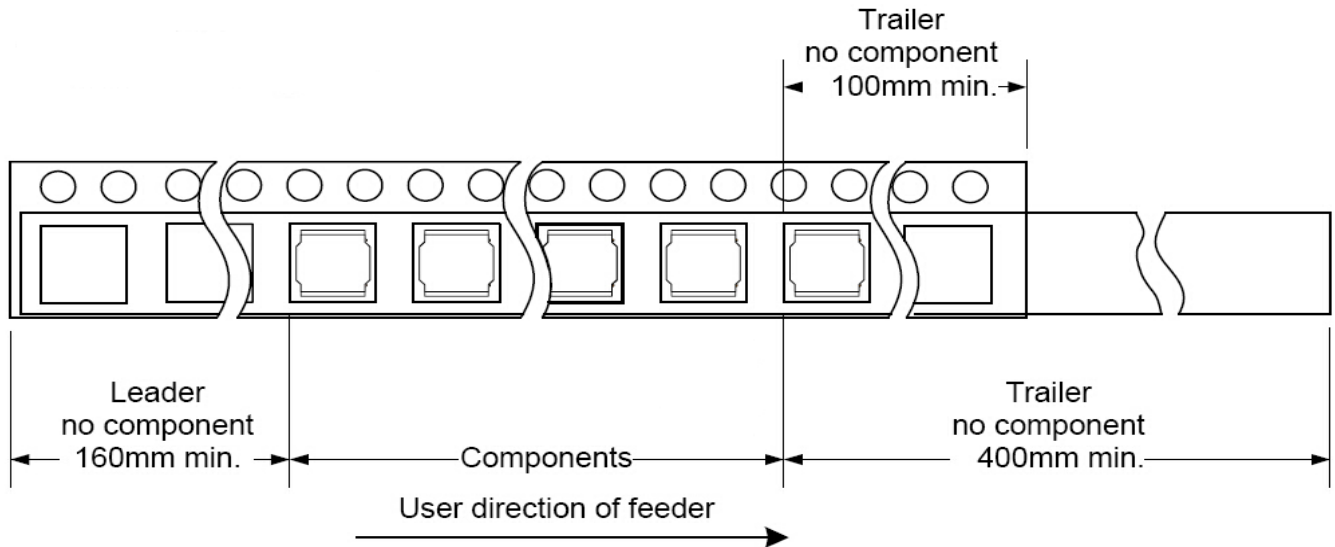
TYPE	W	A	B	D	P	K	T	MPQ
YLCM9070F	24.0±0.3	7.6±0.1	9.6±0.1	7.5±0.1	16.0±0.1	5.1±0.1	0.35±0.05	700

Reel Dimensions(Unit:mm)

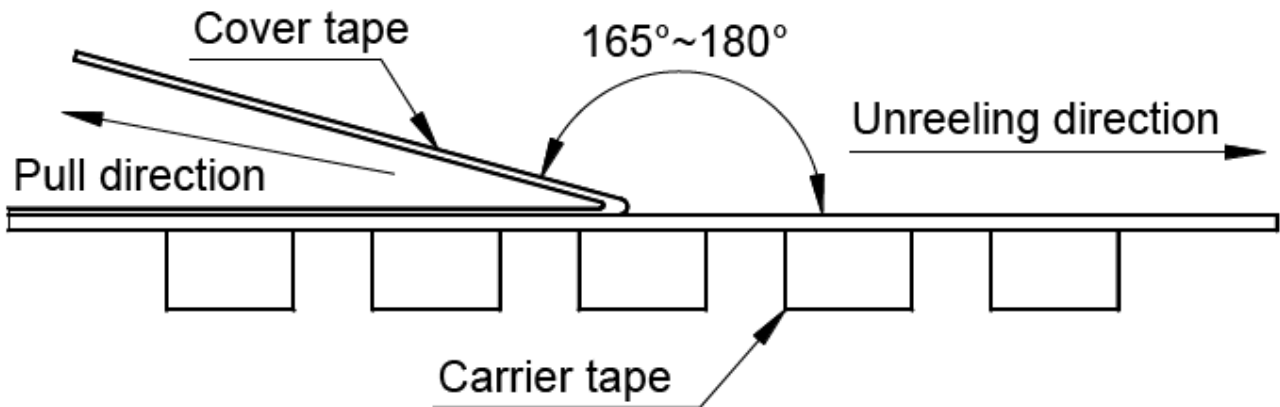


TYPE	W	W1	A	B	C	D
YLCM9070F	330±2.0	16.4±2.0	13.0±0.50	21.0±0.80	2.0±0.50	100Min

■ Direction of rolling



■ Cover tape peel off condition



Cover tape peel force shall be 0.1N to 1.3N.

Reference peel speed 300±10mm/min.