

■ Features

- SMD construction, and low profile.
- High Impedance and Excellent Frequency Characteristic.
- Self Electromagnetic Shielding.
- Low Magnetic Flux Leakage.
- Operating temperature: -45°C to $+85^{\circ}\text{C}$.

■ Applications

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

■ Product Identification

$\frac{\text{YLCM}}{(1)}$ $\frac{\square\square\square\square\square\square}{(2)}$ $\frac{-\square\square\square}{(3)}$ $\frac{T}{(4)}$

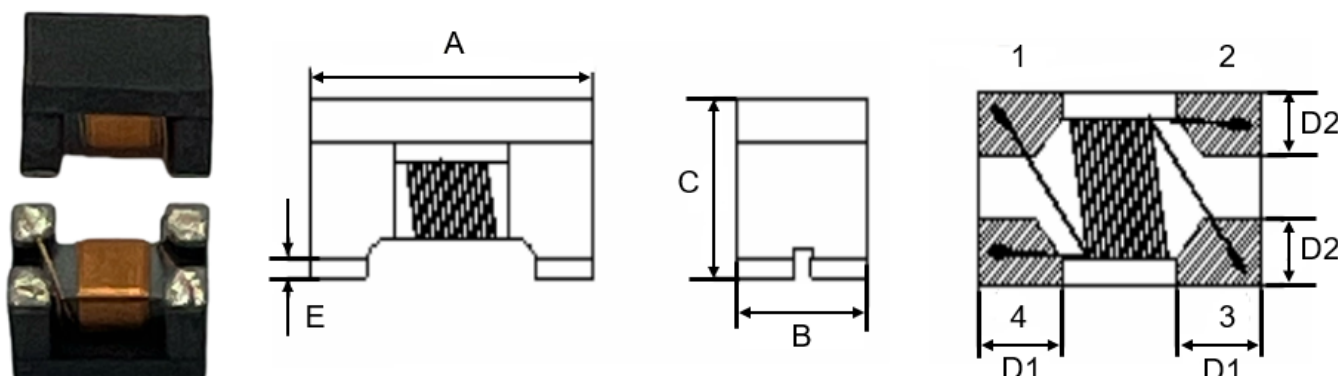
(1) : Type

(2) : Dimensions

(3) : Inductance Value

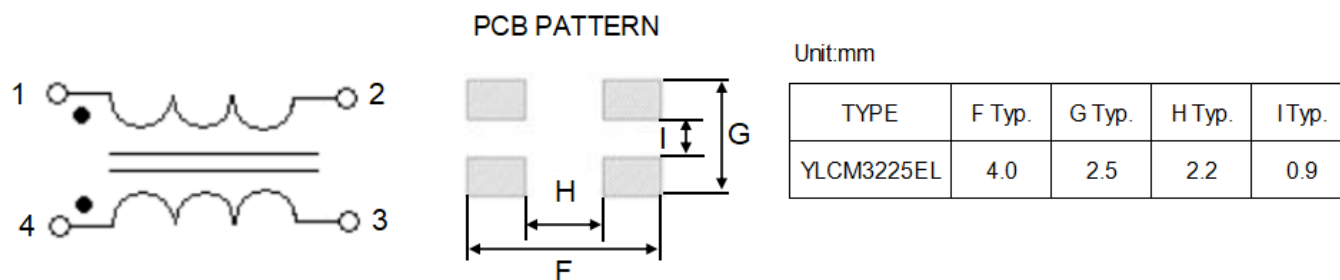
(4) : Packaging

■ Shapes and Dimensions (Unit: mm)



TYPE	A	B	C Max.	D1 Typ.	D2 Typ.	E
YLCM3225EL	3.2 ± 0.2	2.5 ± 0.2	2.5	0.8	0.9	0.2 ± 0.1

■ Equivalent Circuit & Recommended Footprint



■ YLCM3225EL Series

Part Number	Z(Ω) Common mode Impedance (@10MHz)	L(μ H) Common Mode Inductance (@100KHz)	DCR (Ω) Max.	I _{rms} (mA) Max.	Rated Voltage V _{dc} (V)Typical	Insulation Resistance IR (M Ω)Min.
YLCM3225EL-110T	300 Min.	11	0.4	300	50	10
		+50% ~ -30%				
YLCM3225EL-220T	500 Min.	22	0.5	250	50	10
		+50% ~ -30%				
YLCM3225EL-510T	1000 Min.	51	0.7	200	50	10
		+50% ~ -30%				
YLCM3225EL-101T	2000 Min.	100	1.5	150	50	10
		+50% ~ -30%				
YLCM3225EL-201T	8000 Min.	200	4.8	70	50	10
		+50% ~ -30%				

1,Rating DC current:Temperature rise(ΔT) is 40°C approximately at I_{rms}.

2,Storage temp:-10°C ~ +40°C R.H.:65% Max.

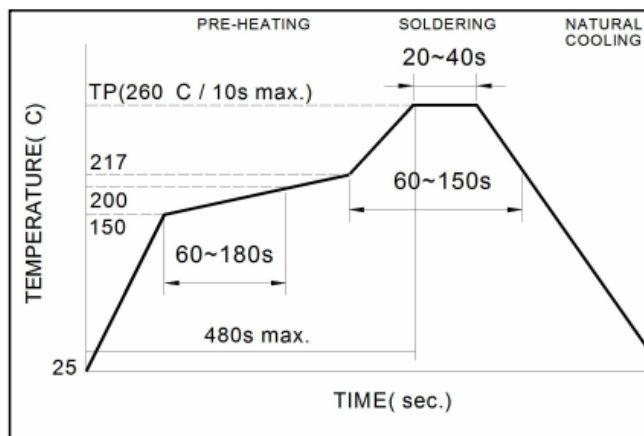
3,Moisture sensitivity level(MSL)2(1 year floor life at <30°C/65% relative humidity)

Material List

NO.	ITEM	DESCRIPTION	SUPPLIER
1	Upper Plate	Ferrite	KOKUSUN Or equivalent
2	CORE	Ferrite Core	KOKUSUN Or equivalent
3	WIRE	Enameled Copper Wire	Elektrisola Or equivalent

Soldering Conditions

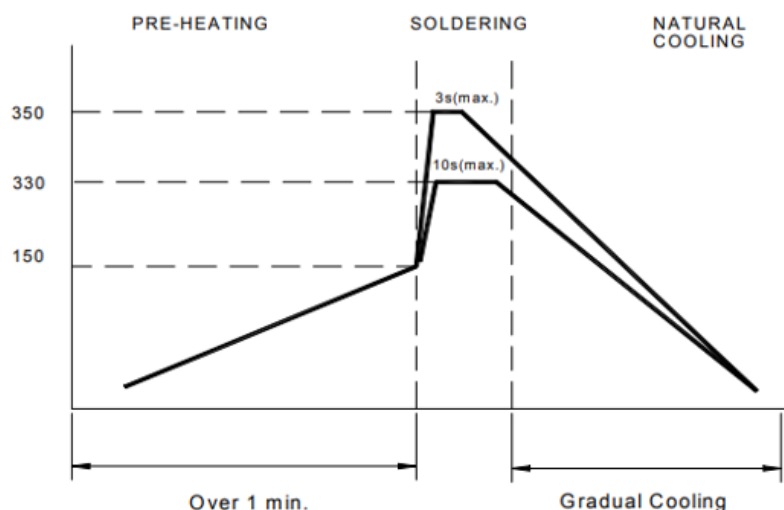
Figure 1:Re-flow Soldering(Lead Free)



Note:

- ※ Preheat circuit and products to 150°C.
- ※ 260°C tip temperature(Max).
- ※ Reflow times: no more than 2 times.
- ※ Solder paste thickness: the best is 0.08mm, but Max is 0.1mm.

Figure 2:Hand Soldering

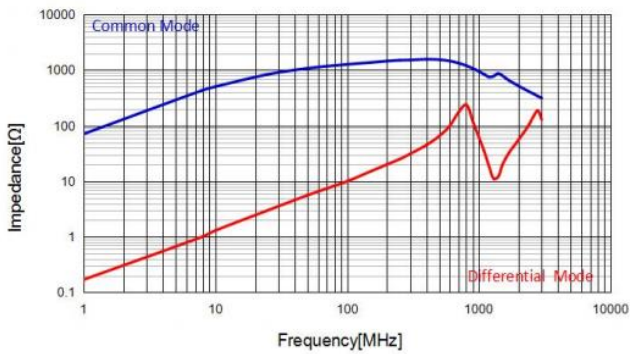


Note:

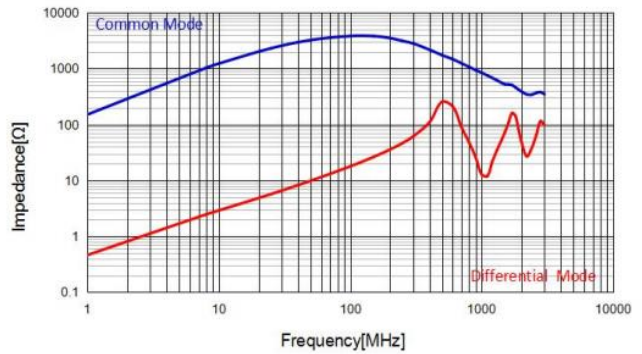
- ※ Use a 20 watt soldering iron with tip diameter of 1.0mm.
- ※ Limit soldering time 3 sec.

■ Electrical Characteristic Curve

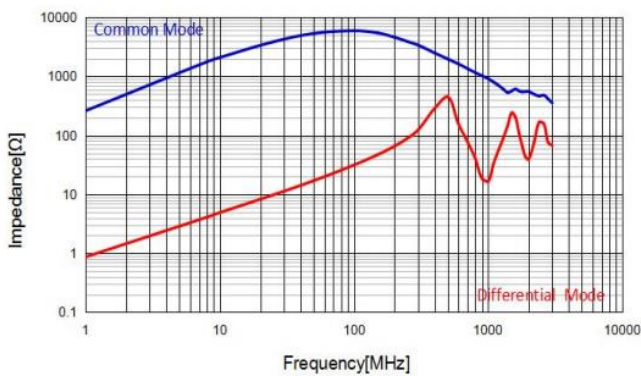
YLCM3225EL-110T



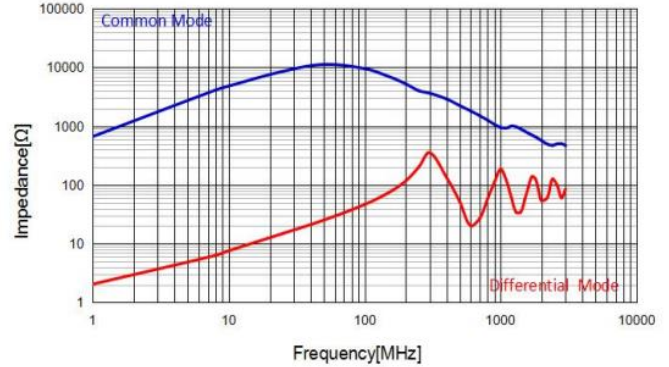
YLCM3225EL-220T



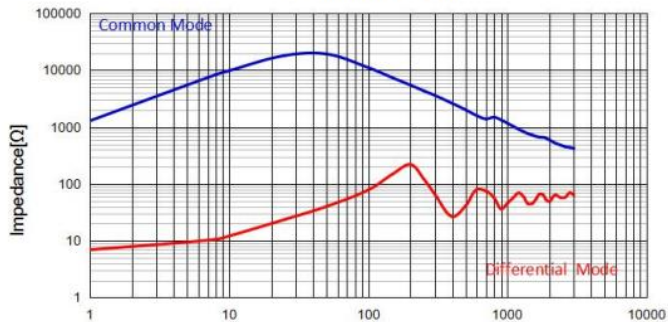
YLCM3225EL-510T



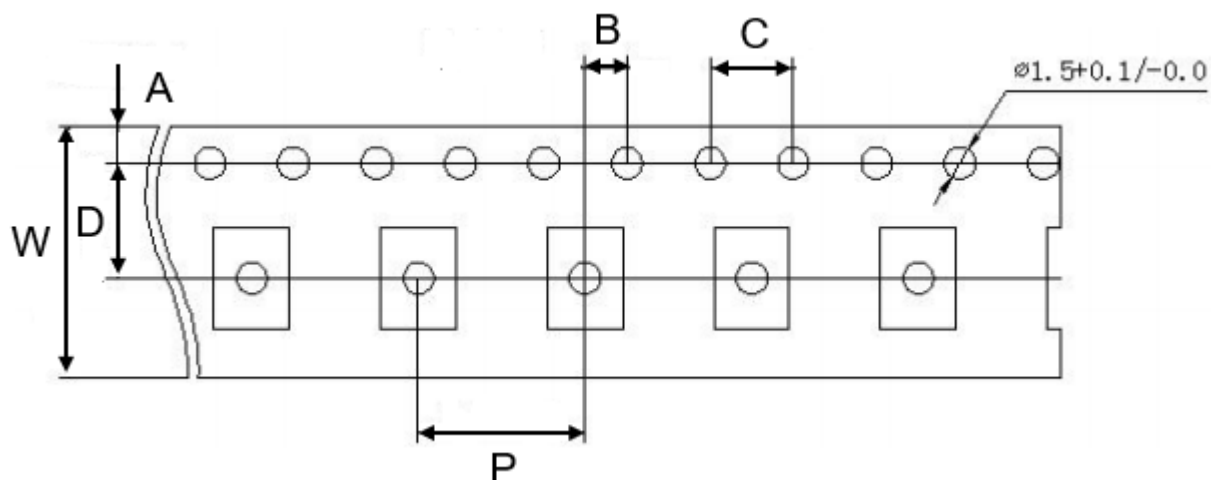
YLCM3225EL-101T



YLCM3225EL-201T

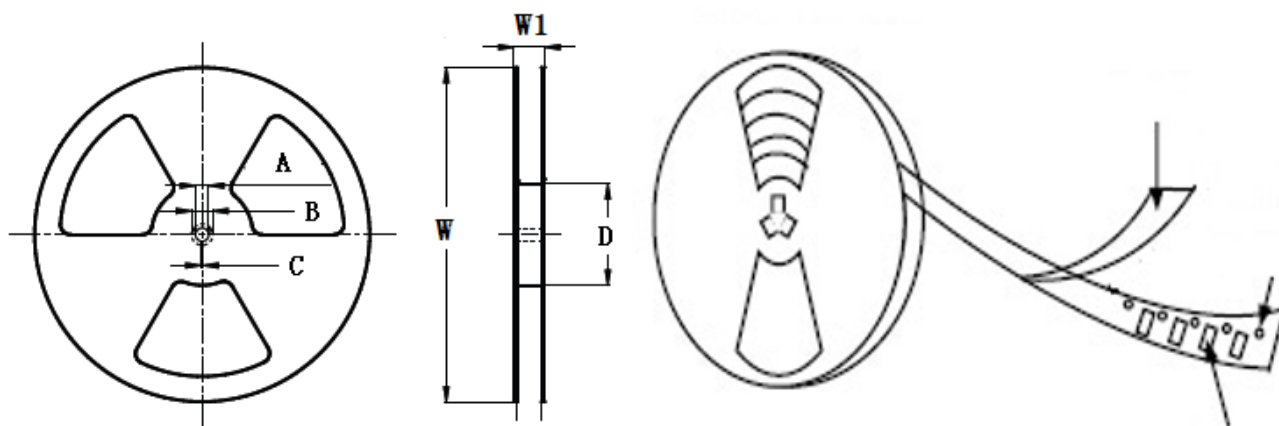


■ Taping Dimensions(Unit:mm)



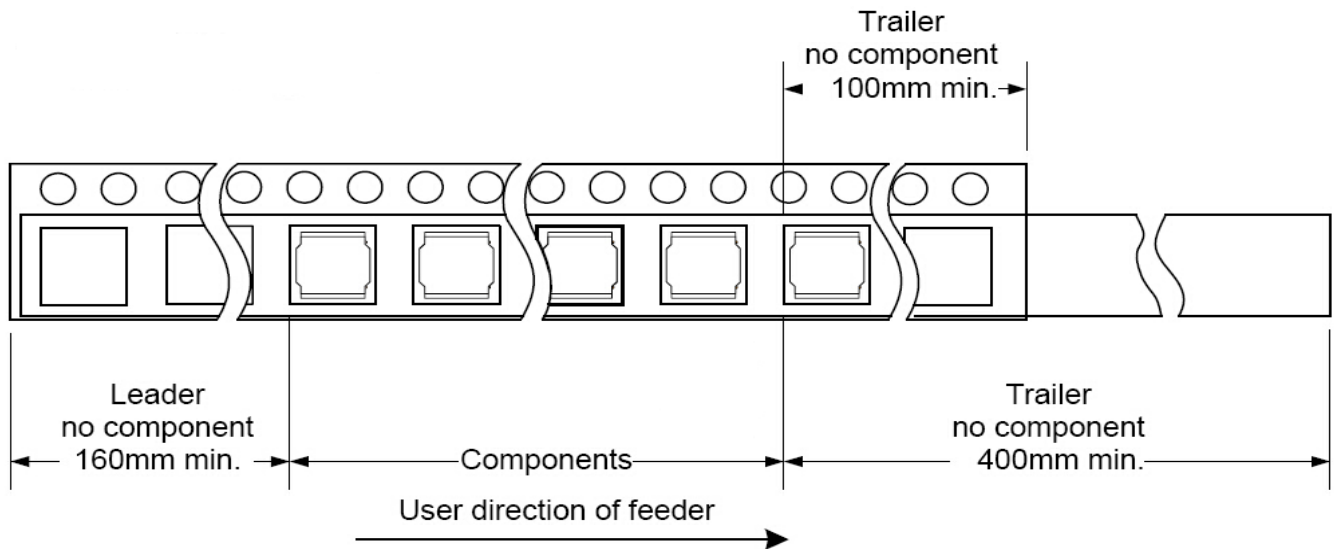
TYPE	W	A	B	C	D	P	MPQ
YLCM3225EL	12.0±0.3	1.75±0.1	2.0±0.1	4.0±0.1	5.5±0.1	8.0±0.1	1000

■ Reel Dimensions(Unit:mm)

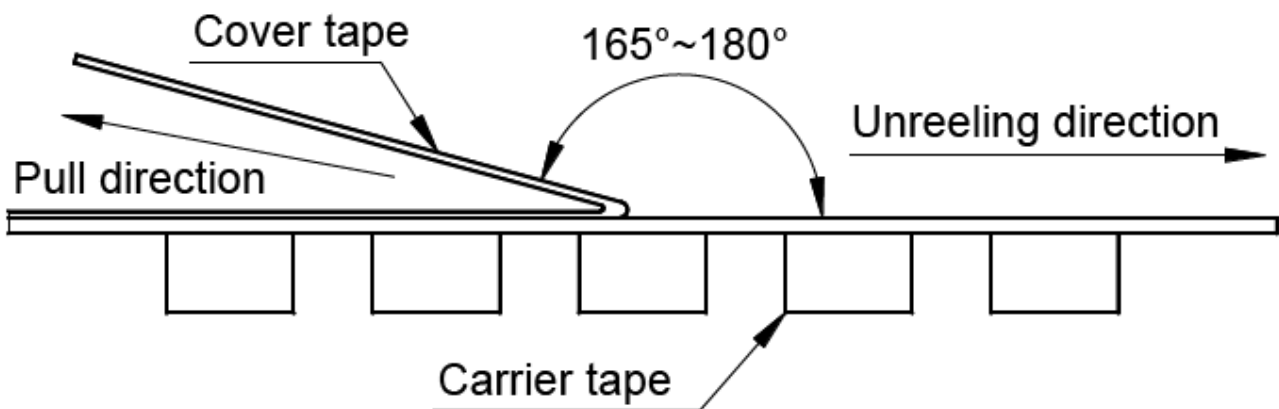


TYPE	W	W1	A	B	C	D
YLCM3225EL	178±2.0	22.0±2.0	13.0±0.50	21.0±0.80	2.0±0.50	100

■ 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.