

■ 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

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

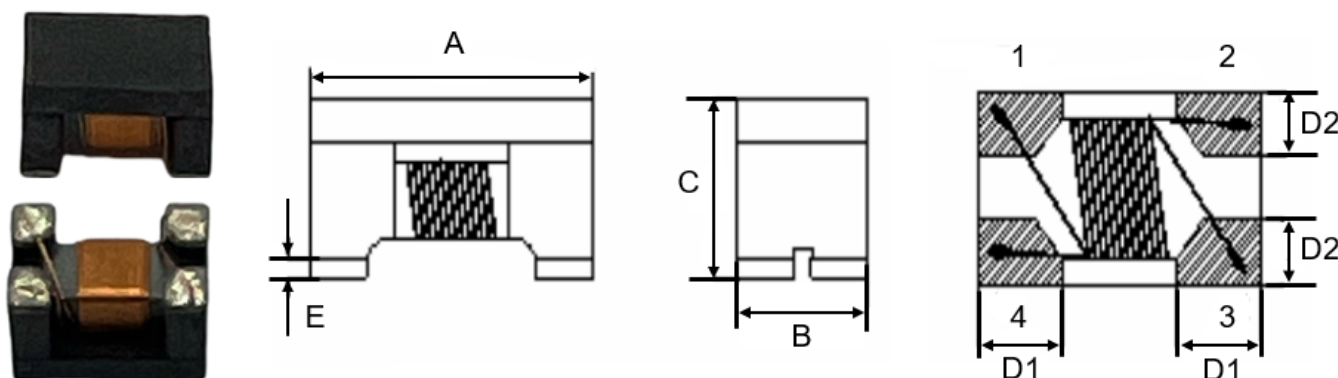
(1) : Type

(2) : Dimensions

(3) : Inductance Value

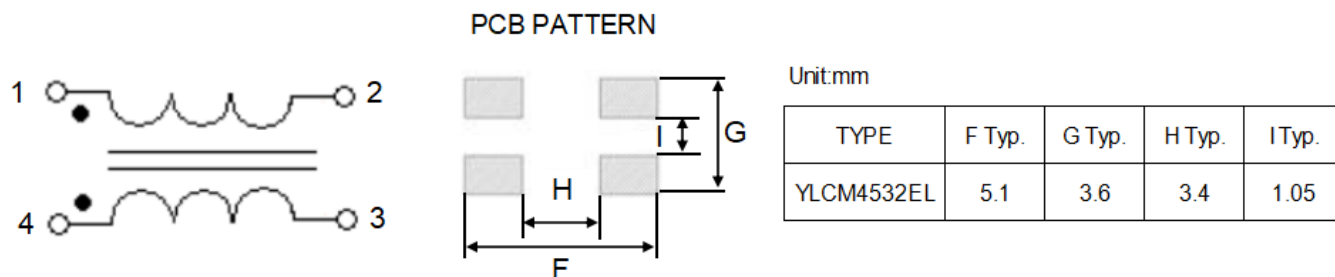
(4) : Packaging

■ Shapes and Dimensions (Unit: mm)



TYPE	A	B	C	D1 Typ.	D2 Typ.	E Typ.
YLCM4532EL	4.5 ± 0.2	3.2 ± 0.2	2.8 ± 0.2	1.0	1.2	0.2

■ Equivalent Circuit & Recommended Footprint



■ YLCM4532EL Series

Part Number	Z(Ω) Common mode Impedance (@10MHz)	L(μH) Common Mode Inductance (@100KHz)	DCR (Ω) Max.	I _{rms} (mA) Max.	Rated Voltage V _{dc} (V)Typical	Insulation Resistance IR (mΩ)Min.
YLCM4532EL-110T	300 Min.	11	0.6	360	50	10
		+50% ~ -30%				
YLCM4532EL-220T	500 Min.	22	1.0	310	50	10
		+50% ~ -30%				
YLCM4532EL-510T	1000 Min.	51	1.0	230	50	10
		+50% ~ -30%				
YLCM4532EL-101T	2000 Min.	100	2.0	200	50	10
		+50% ~ -30%				
YLCM4532EL-201T	5000 Min.	200	4.5	100	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.

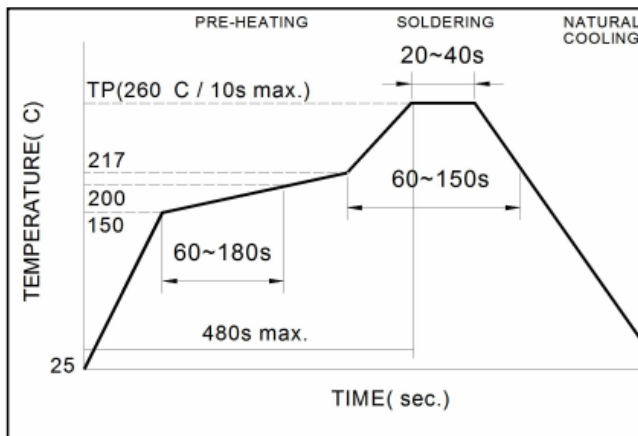
3, Moisture sensitivity level(MSL)2(1 year floor life at <30°C/65% relative humidity)

Material List

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

Soldering Conditions

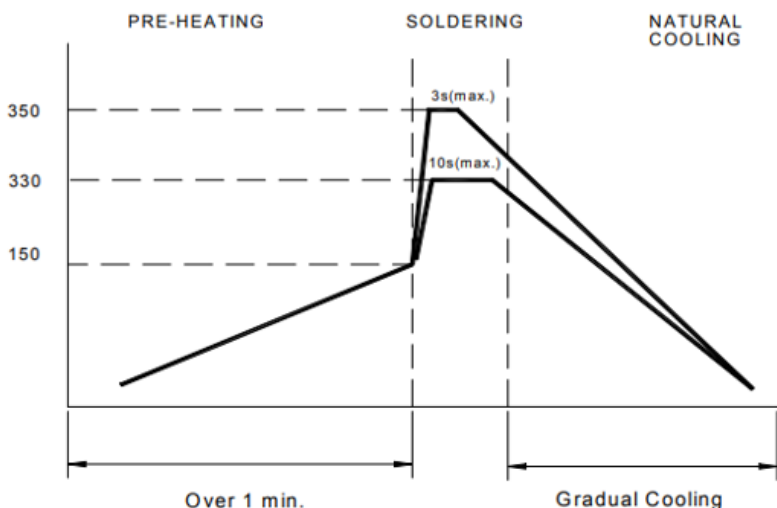
Figure 1:Re-flow Soldering(Lead Free)



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

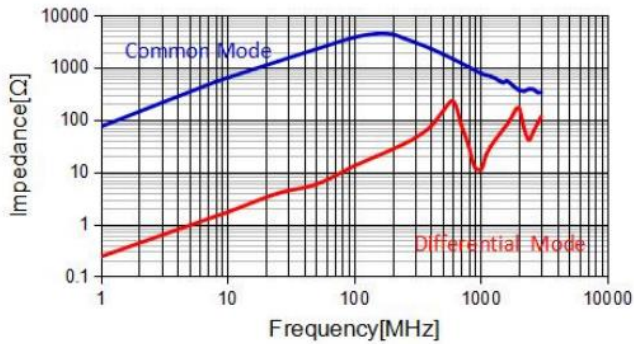


Note:

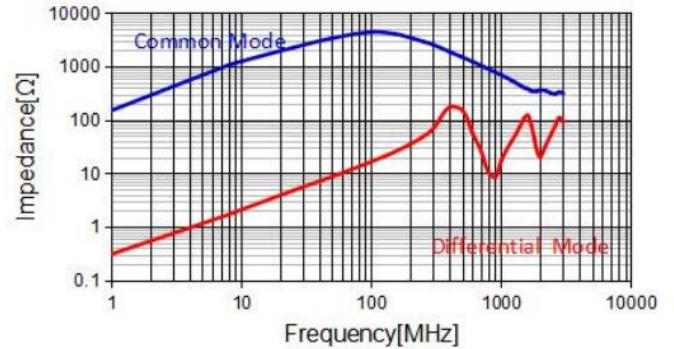
- ※ Use a 20 watt soldering iron with tip diameter of 1.0mm.
- ※ Limit soldering time 3 sec.

■ Electrical Characteristic Curve

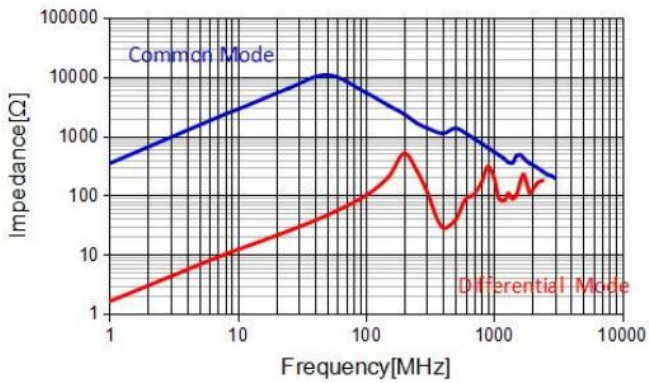
YLCM4532EL-110T



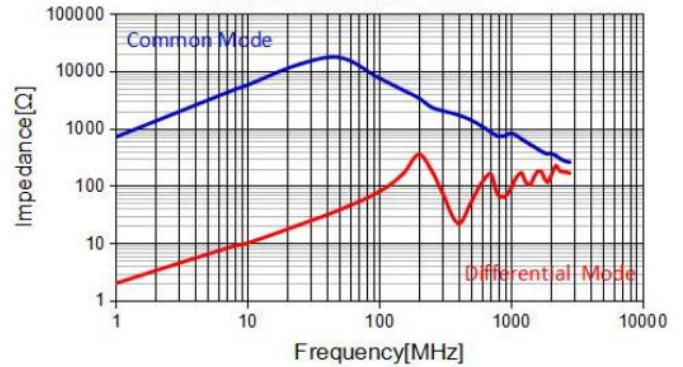
YLCM4532EL-220T



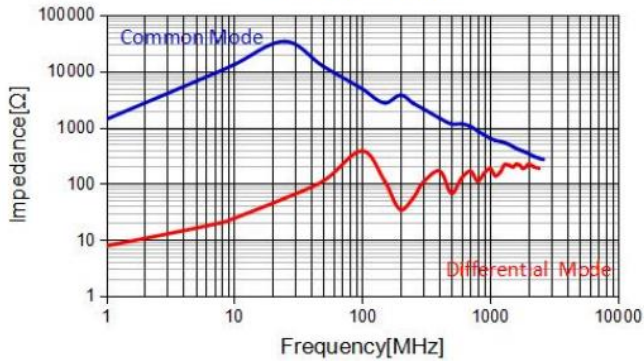
YLCM4532EL-510T



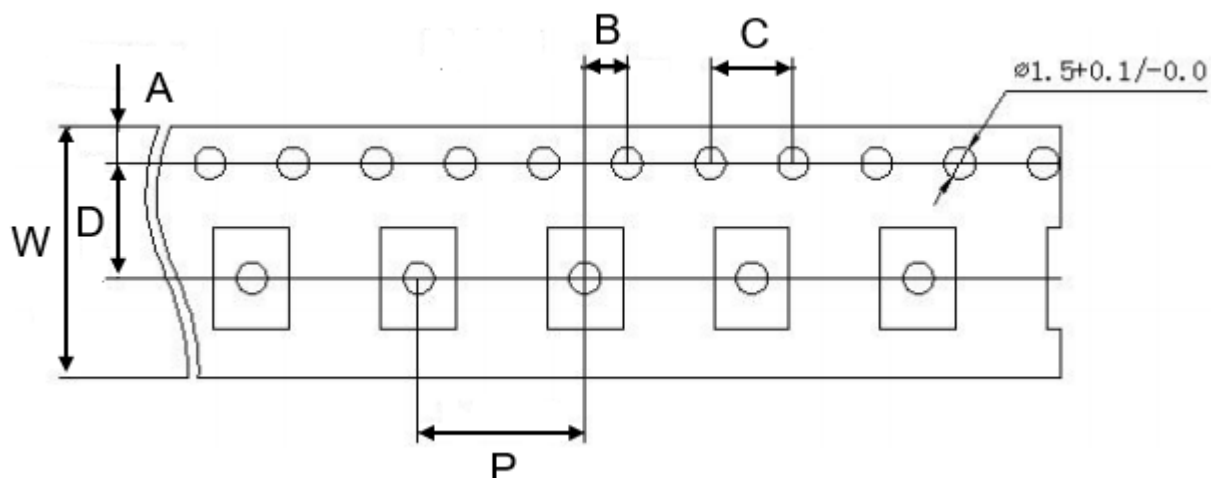
YLCM4532EL-101T



YLCM4532EL-201T

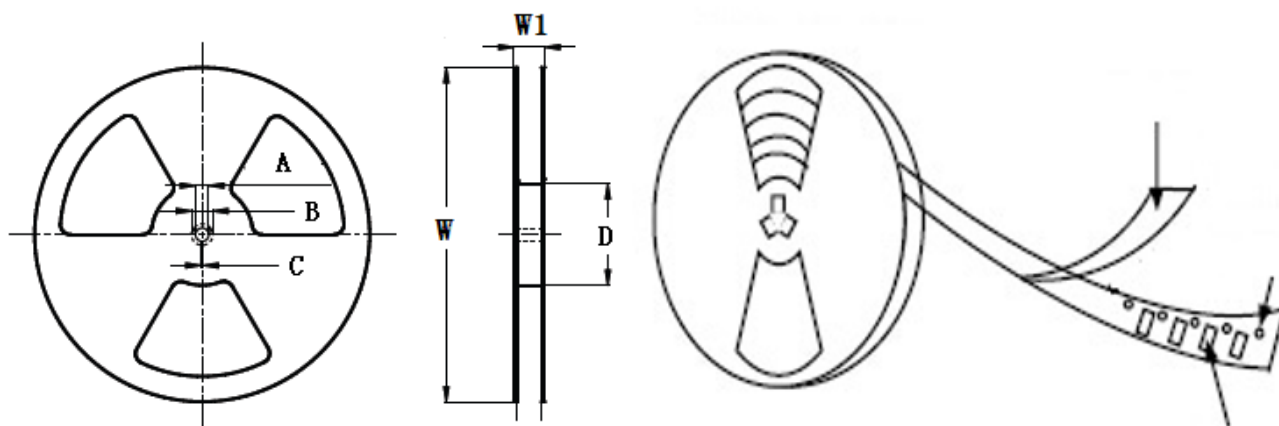


■ Taping Dimensions(Unit:mm)



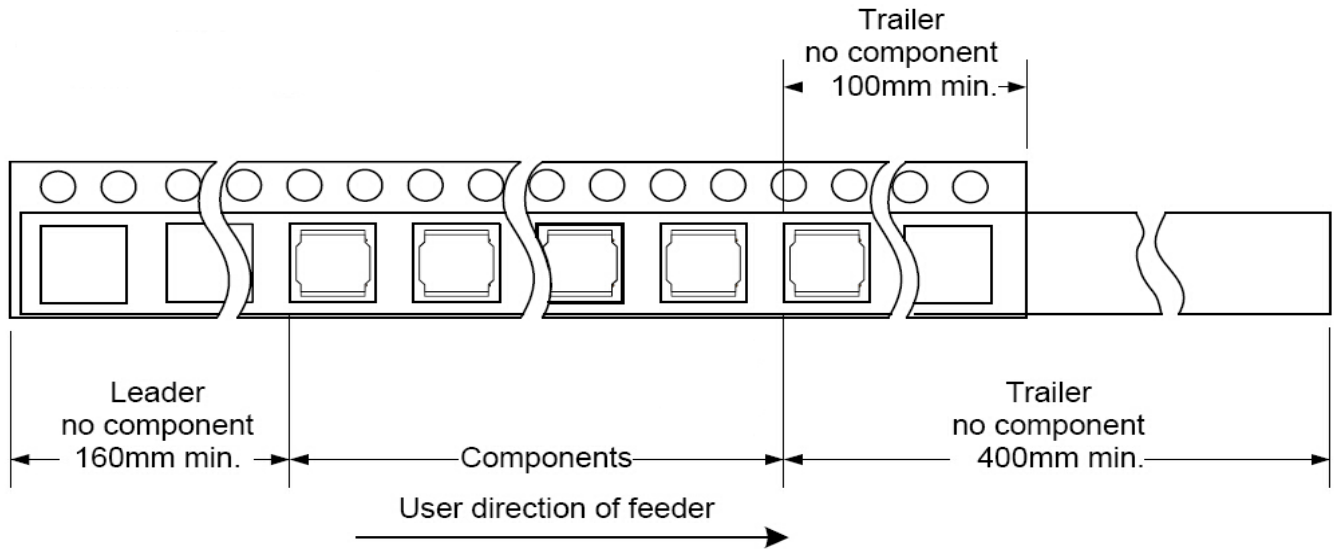
TYPE	W	A	B	C	D	P	MPQ
YLCM4532EL	12.0 $\pm$ 0.3	1.75 $\pm$ 0.1	2.0 $\pm$ 0.1	4.0 $\pm$ 0.1	5.5 $\pm$ 0.1	8.0 $\pm$ 0.1	500

■ Reel Dimensions(Unit:mm)

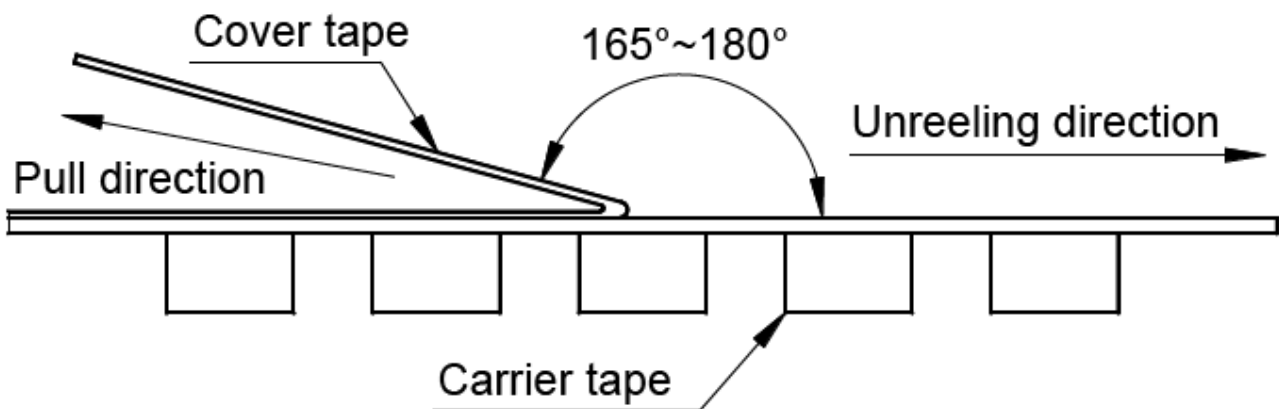


TYPE	W	W1	A	B	C	D
YLCM4532EL	178 $\pm$ 2.0	22.0 $\pm$ 2.0	13.0 $\pm$ 0.50	21.0 $\pm$ 0.80	2.0 $\pm$ 0.50	100

■ 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.