

■ Features

- This filter is characterized by small size, highly effective in noise suppression.
- High common mode impedance at noise band and low differential mode impedance at signal band. Due to the low differential mode impedance with high coupling factor, there is almost no distortion on high speed transmission of high resolution video signals.

■ Applications

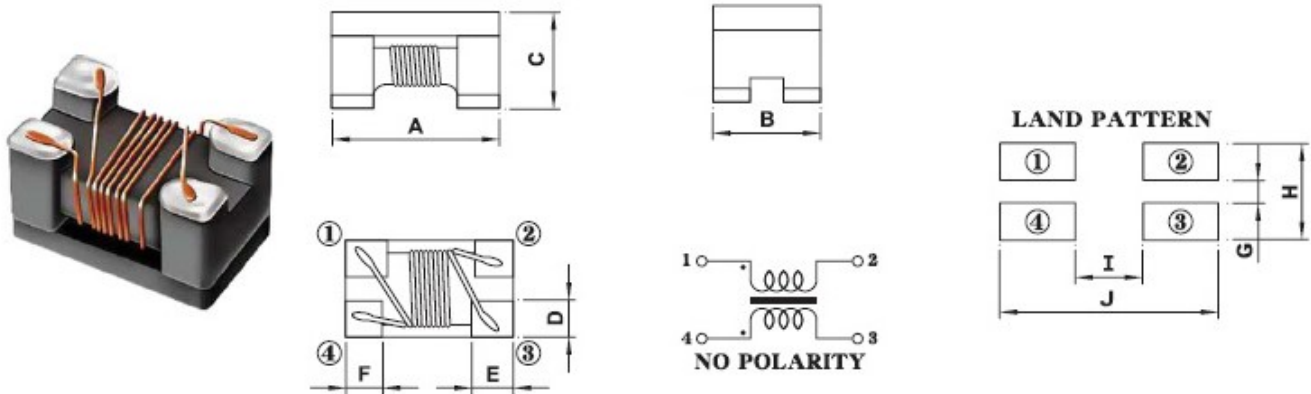
- YLM Series is suited for use on the USB2.0 line and IEEE1394 line of Notebook PC, LVDS lines of PC, LCD Monitor, PCI express, small digital AV equipment such as digital Camera and Free disk, MP3 player and Serial-ATA.

■ Product Identification

YLM □□□□ □—□□□ T
(1) (2) (3) (4) (5)

- (1) : Type
- (2) : Dimensions
- (3) : Identification Code
- (4) : Inductance value
- (5) : Taping

Shapes and Dimensions (Unit: mm)



TYPE	A	B	C	D	E	F	G	H	I	J
YLM1210	1.2±0.2	1.0±0.2	0.8±0.1	0.35±0.1	0.35±0.1	0.35±0.1	0.30	1.00	0.50	1.55
YLM1608	1.6±0.1	0.8±0.1	1.1±0.1	0.25±0.1	0.33±0.1	0.33±0.1	0.25	0.85	0.73	1.89
YLM2012	2.0±0.2	1.2±0.2	1.2±0.2	0.50±0.1	0.50±0.1	0.50±0.1	0.40	1.20	0.80	2.60
YLM2520	2.5±0.2	2.0±0.2	1.2±0.2	0.60±0.1	0.45±0.1	0.45±0.1	0.60	2.00	1.20	3.20
YLM3216	3.2±0.2	1.6±0.2	2.0±0.2	0.50±0.1	0.50±0.1	0.50±0.1	0.40	1.60	1.60	3.70
YLM3225	3.2±0.2	2.5±0.2	2.2±0.2	0.90±0.1	0.80±0.1	0.80±0.1	0.90	2.50	2.20	4.00
YLM4532	4.5±0.2	3.2±0.2	2.8±0.2	1.20±0.1	1.0±0.1	1.00±0.1	1.00	3.20	2.70	5.10

YLM1210 Series

Part Number	Common mode Impedance (Ω) @100MHz	DC Resistance (Ω) Max.	Rated Current (mA) max.	Rated Volt. (Vdc)max.	IR(MΩ) min.
YLM1210□-200T	20±25%	0.15	500	20	10
YLM1210□-350T	35±25%	0.18	430	20	10
YLM1210□-600T	60±25%	0.30	400	20	10
YLM1210□-900T	90±25%	0.30	400	20	10
YLM1210□-161T	160±25%	0.40	260	20	10
YLM1210□-201T	200±25%	0.40	250	20	10
YLM1210□-361T	360±25%	0.55	250	20	10

■ YLM1608 Series

Part Number	Common mode Impedance (Ω) @100MHz	DC Resistance (Ω) Max.	Rated Current (mA) max.	Rated Volt. (Vdc)max.	IR(M Ω) min.
YLM1608□-250T	25±25%	0.10	500	20	10
YLM1608□-600T	60±25%	0.20	350	20	10
YLM1608□-900T	90±25%	0.25	300	20	10
YLM1608□-141T	140±25%	0.25	300	20	10
YLM1608□-221T	220±25%	0.25	300	20	10

■ YLM2012 Series

Part Number	Common mode Impedance (Ω) @100MHz	DC Resistance (Ω) Max	Rated Current (mA) max	Rated Volt. (Vdc)max.	Withstand Volt.(Vdc)max.	IR(M Ω) min.
YLM2012□-300T	30±25%	0.20	450	50	125	10
YLM2012□-670T	67±25%	0.25	400	50	125	10
YLM2012□-900T	90±25%	0.30	400	50	125	10
YLM2012□-121T	120±25%	0.30	400	50	125	10
YLM2012□-161T	160±25%	0.35	350	50	125	10
YLM2012□-181T	180±25%	0.35	350	50	125	10
YLM2012□201T	200±25%	0.40	300	50	125	10
YLM2012□-221T	220±25%	0.40	300	50	125	10
YLM2012□-261T	260±25%	0.40	300	50	125	10
YLM2012□-361T	360±25%	0.50	300	50	125	10
YLM2012□-601T	600±25%	0.88	300	50	125	10
YLM2012□-751T	750±25%	1.00	180	50	125	10
YLM2012□-901T	900±25%	1.15	150	50	125	10
YLM2012□-102T	1000±25%	1.30	100	50	125	10

■ YLM2520 Series

Part Number	Common mode Impedance (Ω) @100MHz	DC Resistance (Ω) Max.	Rated Current (mA) max.	Rated Volt. (Vdc)max.	IR(M Ω) min.
YLM2520□-301T	300±25%	0.25	400	50	10
YLM2520□-451T	450±25%	0.30	350	50	10
YLM2520□-601T	600±25%	0.38	330	50	10
YLM2520□-102T	1000±25%	0.50	240	50	10

■ YLM3216 Series

Part Number	Common mode Impedance (Ω) @100MHz	DC Resistance (Ω) Max	Rated Current (mA) max	Rated Volt. (Vdc)max.	Withstand Volt.(Vdc)max.	IR(M Ω) min.
YLM3216□-900T	90±25%	0.30	400	50	125	10
YLM3216□-121T	120±25%	0.30	350	50	125	10
YLM3216□-161T	160±25%	0.40	350	50	125	10
YLM3216□-221T	220±25%	0.45	300	50	125	10
YLM3216□-261T	260±25%	0.50	300	50	125	10
YLM3216□-361T	360±25%	0.60	300	50	125	10
YLM3216□-601T	600±25%	0.80	300	50	125	10
YLM3216□-102T	1000±25%	1.00	200	50	125	10
YLM3216□-222T	2200±25%	1.20	200	50	125	10

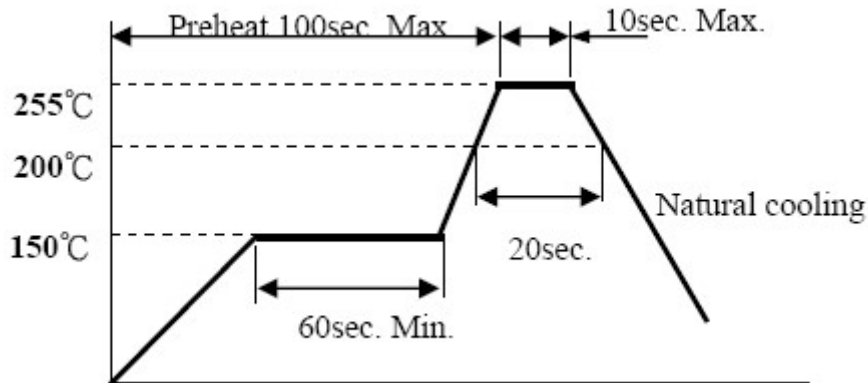
■ YLM3225 Series

Part Number	Common mode Impedance (Ω) @100MHz	DC Resistance (Ω) Max	Rated Current (mA) max	Rated Volt. (Vdc)max.	Withstand Volt.(Vdc)max.	IR(M Ω) min.
YLM3225□-900T	90±25%	0.05	1000	50	125	10
YLM3225□-161T	160±25%	0.15	480	50	125	10
YLM3225□-271T	270±25%	0.25	450	50	125	10
YLM3225□-601T	600±25%	0.20	1000	50	125	10
YLM3225□-102T	1000±25%	0.30	400	50	125	10

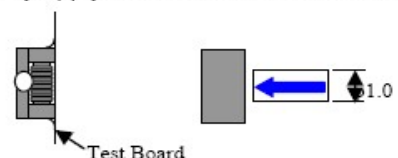
■ YLM4532 Series

Part Number	Common mode Impedance (Ω) @100MHz	DC Resistance (Ω) Max	Rated Current (mA) max	Rated Volt. (Vdc)max.	Withstand Volt.(Vdc)max.	IR(M Ω) min.
YLM4532□-900T	90±25%	0.05	2000	50	125	10
YLM4532□-331T	330±25%	0.11	1100	50	125	10
YLM4532□-601T	600±25%	0.24	1500	50	125	10
YLM4532□-801T	800±25%	0.24	1000	50	125	10
YLM4532□-102T	1000±25%	0.25	800	50	125	10
YLM4532□-142T	1400±25%	0.30	700	50	125	10

Recommended soldering temp.Graph



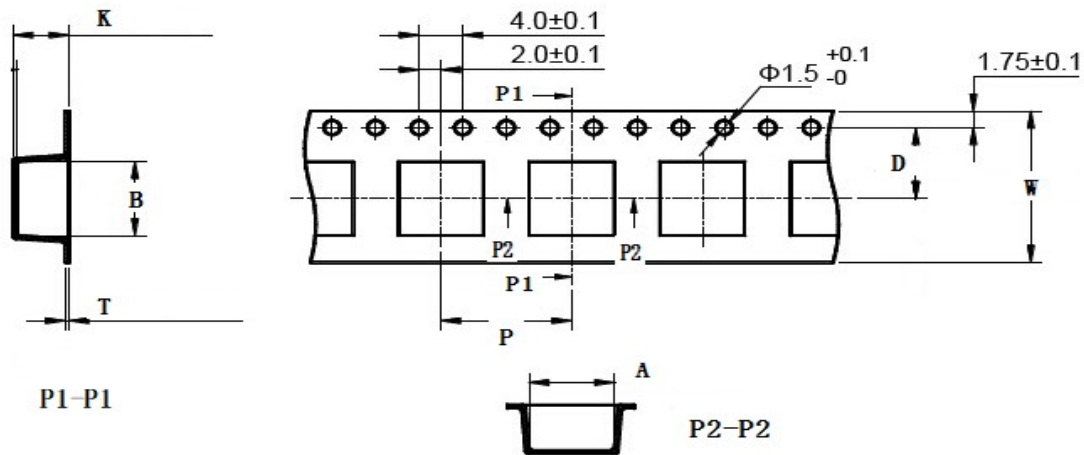
Mechanical reliability

TEST	Specification & Requirement	Method Used
Solderability	The surface of terminal/pin tested shall be covered with new solder by 90%	Solder heat proof: Preheating: 150 ±10°C 60 seconds Soldering: 230 ±5°C for 3 ±1 sec
Solder Heat Resistance	Components should have not evidence of electrical and mechanical damage Impedance: within ±15% of initial value	Preheating: 150°C 60secs Solder temperature: 260±5°C Flux: rosin Dip time: 10±0.5 secs
Terminal strength	Series No.	F (Kg)
	YLM2012	0.5
	YLM3216/3225	1.0
	YLM4532	1.5
		Solder a chip to test substrate and then laterally apply a force in the arrow direction 

Endurance Reliability

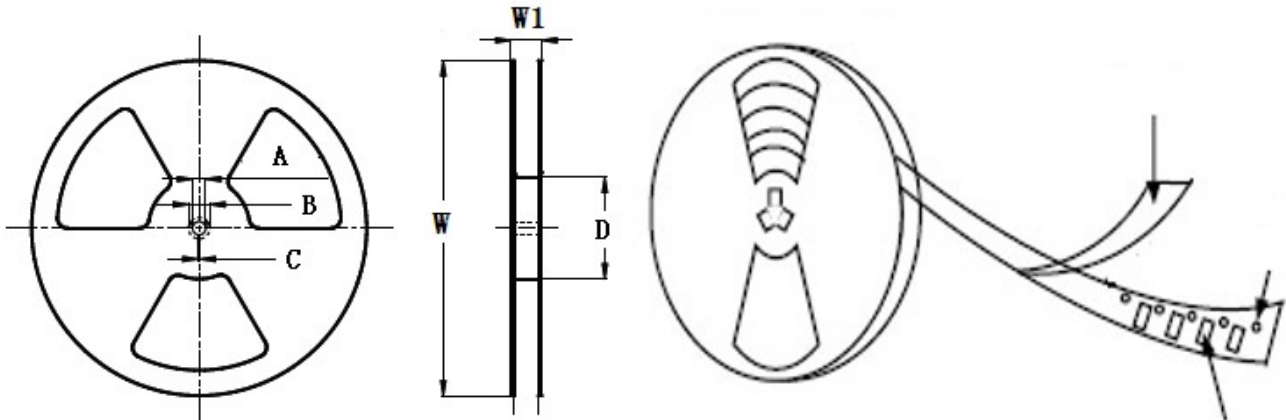
TEST	Specification & Requirement	Method Used
Thermal Shock	Impedance change within ± 15% Without mechanical damage	-25°C, (30 mins) -> room temp. (5 mins) -> 125°C, (30 mins) -> room temp. (5 mins) 10 cycles
Humidity Resistance	Impedance change within ± 15% Without mechanical damage	Apply IDC current @ 60°C ambient Humidity: 80% Duration: 168 hrs
Low Temp. Storing	Impedance change within ± 15% Without mechanical damage	Storing Temp. -25 ±2 °C for total 168 +5/-0 hours
High Temp. Storing	Impedance change within ± 15% Without mechanical damage	Storing Temp. 125 ±2 °C for total 168 +5/-0 hours

■ Taping Dimensions(Unit:mm)



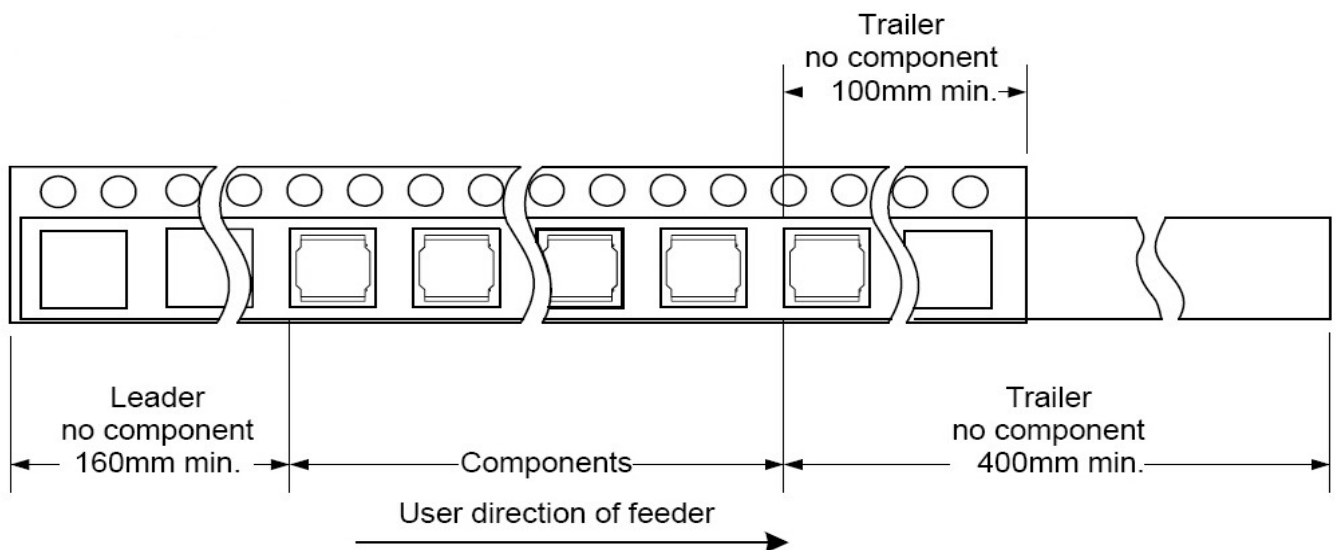
TYPE	W	A	B	D	P	K	T	MPQ
YLM1210	8.0±0.2	1.10±0.1	2.35±0.1	3.5±0.05	4.0±0.1	0.95±0.1	0.15±0.05	3000
YLM1608	8.0±0.2	0.90±0.1	1.75±0.1	3.5±0.05	4.0±0.1	1.30±0.1	0.15±0.05	2000
YLM2012	8.0±0.2	1.50±0.1	2.35±0.1	3.5±0.05	4.0±0.1	1.45±0.1	0.26±0.05	2000
YLM2520	8.0±0.2	2.25±0.1	2.75±0.1	3.5±0.05	4.0±0.1	1.45±0.1	0.26±0.05	2000
YLM3216	8.0±0.2	1.88±0.1	3.50±0.1	3.5±0.05	4.0±0.1	2.20±0.1	0.26±0.05	2000
YLM3225	8.0±0.2	2.88±0.1	3.65±0.1	3.5±0.05	4.0±0.1	2.50±0.1	0.26±0.05	2000
YLM4532	12.0±0.2	3.60±0.1	4.90±0.1	5.5±0.05	8.0±0.1	3.00±0.1	0.26±0.05	500

Reel Dimensions(Unit:mm)

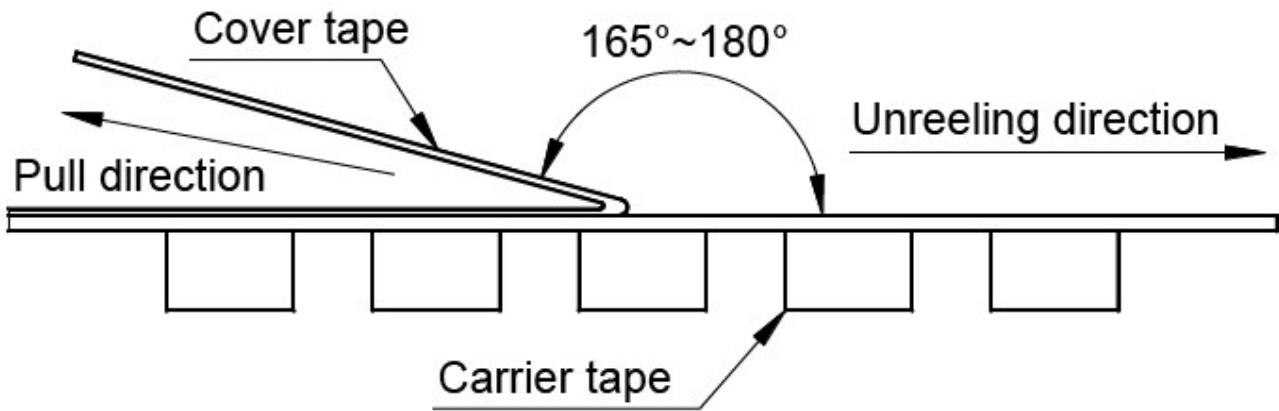


TYPE	W	W1	A	B	C	D
YLM1210	178±2.0	9.00±0.50	4.3±0.20	5.0±0.10	3.0±0.10	60±2.0
YLM1608	178±2.0	9.00±0.50	4.3±0.20	5.0±0.10	3.0±0.10	60±2.0
YLM2012	178±2.0	9.00±0.50	4.3±0.20	5.0±0.10	3.0±0.10	60±2.0
YLM2520	178±2.0	9.00±0.50	4.3±0.20	5.0±0.10	3.0±0.10	60±2.0
YLM3216	178±2.0	9.00±0.50	4.3±0.20	5.0±0.10	3.0±0.10	60±2.0
YLM3225	178±2.0	9.00±0.50	4.3±0.20	5.0±0.10	3.0±0.10	60±2.0
YLM4532	178±2.0	13.50±0.50	4.3±0.20	5.0±0.10	3.0±0.10	60±2.0

Direction of rolling



■ Cover tape peel off condition



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

Reference peel speed 300 ± 10 mm/min.