

# YXB

## Class Y2/X1 EMI/RFI Boxed Metallized polypropylene film



### Features

- Metallized polypropylene
- High dvdt
- Small size
- Low self inductance
- Low ESR

### Applications

- EMI/RFI suppression
- Line by pass
- EMI filters
- Across the line
- Line to ground

### Specifications

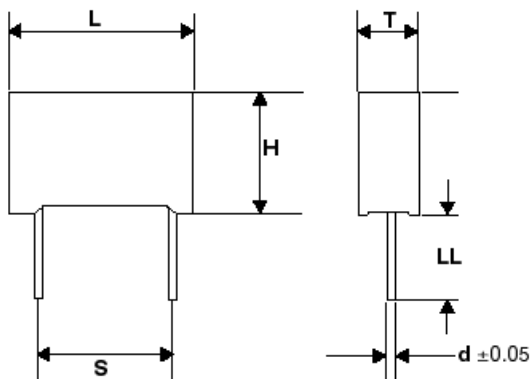
Operating Temperature Range		-40°C to +110°C	
Capacitance Tolerance		±10% at 1 kHz, 20°C +5% optional	
AC voltage	IEC60384-14	300 VAC	
	UL,CUL	310 VAC	
Dissipation Factor Tan δ at 1 kHz and 20°C		.1% Max	
Insulation Resistance @20°C (<70% RH)for 1 minute at 100VDC applied		Terminal to Terminal	
		15000 MΩ Minimum	Terminal to Case 30000 MΩ Minimum@100 VDC 500 MΩ Minimum @ 500 VDC
Self Inductance		<1 nano-Henry per mm of lead spacing and lead length	
Dielectric Strength		Terminal to Terminal	
		Terminal to case	
		2250 VDC or 1500 VAC applied for 60 Seconds and 20°C or 3000VDC applied for 3 seconds Cut off current: 2Aac or 10mAdc Current limiting resistance: 1Ω/V Slew rate: 100V/s	
		2050VAC applied between the terminals and case for 60 Seconds and 20°C	
Life Expectancy		1000 hours at 110°C at 170% of rated voltage with once every hour the voltage is increased to 1000 VAC for 0.1 seconds	
		Capacitance change	≤10% of initially measured value
		Dissipation Factor change	≤0.15% at 1kHz
		Insulation resistance change	≥50% of initially specified value
Construction		Metallized Polypropylene film	
Electrodes		Vacuum deposited Metal layers	
Coating		Flame retardant Solvent resistant plastic case with epoxy end fill (UL94V-0)	
Lead terminations		Lead free tinned copper leads	



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Capacitance (µF)	VAC	IC® PART NUMBER	dv/dt (V/µs)	LxHxT (mm)	S Lead Spacing (mm)	d Lead Wire Diameter (mm)
0.001	300/310	102YXB300KD	800	13x9x4	10	0.6
0.0015	300/310	152YXB300KD	800	13x9x4	10	0.6
0.0022	300/310	222YXB300KD	800	13x10x5	10	0.6
0.0022	300/310	222YXB300KE	600	18x11x5	15	0.8
0.0033	300/310	332YXB300KD	800	13x10x5	10	0.6
0.0033	300/310	332YXB300KE	600	18x11x5	15	0.8
0.0047	300/310	472YXB300KD	800	13x11x5	10	0.6
0.0047	300/310	472YXB300KE	600	18x11x5	15	0.8
0.0056	300/310	562YXB300KE	600	18x11x5	15	0.8
0.0068	300/310	682YXB300KD	800	13x12x6	10	0.6
0.0068	300/310	682YXB300KE	600	18x11x5	15	0.8
0.0082	300/310	822YXB300KD	800	13x13x7	10	0.6
0.0082	300/310	822YXB300KE	600	18x11x5	15	0.8
0.01	300/310	103YXB300KD	800	13x14x8	10	0.6
0.01	300/310	103YXB300KE	600	18x11x5	15	0.8
0.015	300/310	153YXB300KE	600	18x12x6	15	0.8
0.022	300/310	223YXB300KE	600	18x13x7	15	0.8
0.033	300/310	333YXB300KE	600	18x15x9	15	0.8
0.047	300/310	473YXB300KE	600	18x17x10	15	0.8
0.047	300/310	473YXB300KG	500	26x16x6	22.5	0.8
0.068	300/310	683YXB300KG	500	26x16.5x7.5	22.5	0.8
0.1	300/310	104YXB300KG	500	26x18x9	22.5	0.8
0.15	300/310	154YXB300KG	500	26x20x11	22.5	0.8
0.22	300/310	224YXB300KG	500	26x24x14	22.5	0.8



Safety agency	Standard	Voltage	Class	Certificate number
UL	UL 1414/ UL1283	310	Y2/X1	E149075/ E221690
CUL	UL 1414/ UL1283	310	Y2/X1	E149075/ E221690
ENEC (SEMKO)	IEC 60384-14/ SE/0252-3	300	Y2/X1	SE/0252-3
CB (Sweden)	EN 132400/ IEC60384-14	300	Y2/X1	SE-55114
CQC	GB/T14472-1998	300	Y2	CQC08001028115

