

FEATURES

Metalized Polypropylene – multiple case sizes – Low ESR and self inductance

APPLICATIONS

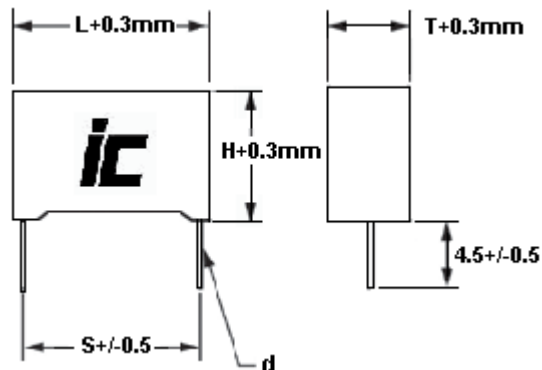
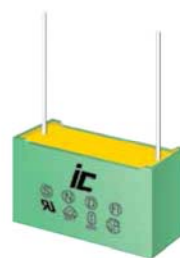
EMI/RFI Suppression – Line Bypass – EMI Filters – Across the line – Line to ground

Operating Temperature Range		-40°C to +110°C	
Capacitance Tolerance		±10% at 1 kHz, 20°C ±5% optional	
AC voltage	IEC60384-14, GB/T14472	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	Terminal to Case
		15000 MΩ Minimum	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	

YXB

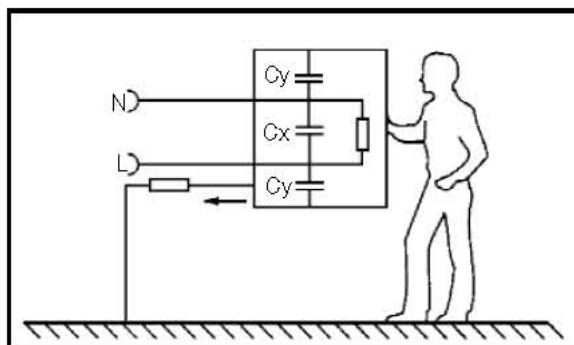
Boxed Metallized Polypropylene Film Capacitors

Class Y2/X1 EMI/RFI



*17mm lead length available upon request

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



X capacitors are used to suppress electrical noise by reducing the input impedance of the device incorporating the capacitor.
X capacitors are connected across the supply line where failure of the capacitor will not result in personal exposure to electrical shock.
X2 capacitors are to be used in applications where the peak voltage is $\leq 1200V$.

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Your Global Source for World-Class Capacitors

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North America

Tel: 847.675.1760

sales@illcap.com

Asia

Tel: 852.2793 0931

sales@illcap.com.hk

YXB

Class Y2/X1

Capacitance (μF)	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
0.001	102YXB300KD	500	13x9x4	10	0.6
0.0015	152YXB300KD	500	13x9x4	10	0.6
0.0022	222YXB300KD	500	13x10x5	10	0.6
0.0022	222YXB300KE	400	18x11x5	15	0.8
0.0033	332YXB300KE	400	18x11x5	15	0.8
0.0033	332YXB300KD	500	13x10x5	10	0.6
0.0047	472YXB300KD	500	13x11x5	10	0.6
0.0047	472YXB300KE	400	18x11x5	15	0.8
0.0056	562YXB300KE	400	18x11x5	15	0.8
0.0068	682YXB300KE	400	18x11x5	15	0.8
0.0068	682YXB300KD	500	13x12x6	10	0.6
0.0082	822YXB300KD	500	13x13x7	10	0.6

Capacitance (μF)	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
0.0082	822YXB300KE	400	18x11x5	15	0.8
0.01	103YXB300KE	400	18x11x5	15	0.8
0.01	103YXB300KD	500	13x14x8	10	0.6
0.015	153YXB300KE	400	18x12x6	15	0.8
0.022	223YXB300KE	400	18x13x7	15	0.8
0.033	333YXB300KE	400	18x15x9	15	0.8
0.047	473YXB300KE	400	18x17x10	15	0.8
0.047	473YXB300KG	200	26x16x6	22.5	0.8
0.068	683YXB300KG	200	26x16.5x7.5	22.5	0.8
0.1	104YXB300KG	200	26x18x9	22.5	0.8
0.15	154YXB300KG	200	26x20x11	22.5	0.8
0.22	224YXB300KG	200	26x24x14	22.5	0.8