YXJ SERIES

105℃ Miniaturized, Long Life

•Load Life : 105℃ 4000～10000 hours.

RoHS compliance

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40～+105℃
Rated Voltage Range	6.3～100Vdc
Capacitance Tolerance	±20%(20℃,120Hz)
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater.(After 2 minutes) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)
Dissipation Factor(MAX) (tanδ)	(20℃,120Hz) When capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.
Endurance	After applying rated voltage with rated ripple current for specified time at 105℃, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Dissipation Factor(MAX) (tanδ)

Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100
tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

Endurance

Capacitance Change	Within ±25% of the initial value.(6.3V:±30%)
Dissipation Factor	Not more than 200% of the specified value.
Leakage Current	Not more than the specified value.

Case Size	Life Time(hrs)	
	6.3～10Vdc	16～100Vdc
φD=5	4000	5000
φD=6.3,8	6000	7000
φD≧10	8000	10000

Low Temperature Stability Impedance Ratio(MAX)

Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100
Z(−25℃)/Z(20℃)	4	3	2	2	2	2	2	2
Z(−40℃)/Z(20℃)	8	6	4	3	3	3	3	3

◆MULTIPLIER FOR RIPPLE CURRENT

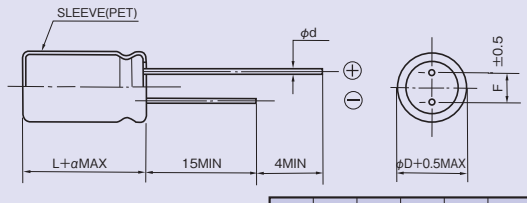
(6.3Vdc～50Vdc)

Frequency(Hz)		120	1k	10k	100k≦
Coefficient	1uF	0.35	0.60	0.80	1.00
	2.2～10uF	0.42	0.60	0.80	1.00
	22～47uF	0.55	0.75	0.90	1.00
	100～330uF	0.70	0.85	0.95	1.00
	470～1000uF	0.75	0.90	0.98	1.00
	2200～15000uF	0.80	0.95	1.00	1.00

(63Vdc～100Vdc)

Frequency(Hz)	120	1k	10k	100k≦
Coefficient	0.42	0.60	0.80	1.00

◆DIMENSIONS (mm)



φD	5	6.3	8	10	12.5	16
φd	0.5		0.6			0.8
F	2.0	2.5	3.5	5.0		7.5
α	L≦16 : α=1.5 L≧20 : α=2.0					

◆OPTION

	Code
PET Sleeve	Blank

◆PART NUMBER

□□□ Rated Voltage / YXJ Series / □□□□□ Capacitance / M Capacitance Tolerance / □□□ Option / □□ Lead Forming / D×L Case Size

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
				20℃, 100kHz	−10℃, 100kHz
6.3	100	5×11	150	0.90	3.6
	220	5×11	250	0.40	1.2
	330	6.3×11	340	0.22	0.87
	470	6.3×11	400	0.22	0.87
	1000	8×11.5	640	0.13	0.52
	2200	10×16	1300	0.062	0.25
	3300	10×20	1400	0.046	0.18
	4700	12.5×25	2230	0.032	0.11
	6800	12.5×25	2230	0.032	0.11
	10000	16×25	2930	0.021	0.060
	15000	16×35.5	3610	0.015	0.044
10	100	5×11	150	0.90	3.6
	220	5×11	250	0.40	1.2
	330	6.3×11	400	0.22	0.87
	470	6.3×11	400	0.22	0.87
	1000	10×12.5	865	0.080	0.32
	2200	10×20	1400	0.046	0.18
	3300	12.5×20	1900	0.041	0.14
	4700	12.5×25	2230	0.032	0.11
	6800	16×25	2930	0.021	0.060
	10000	16×31.5	3450	0.019	0.056
16	47	5×11	250	0.40	1.2
	100	5×11	250	0.40	1.2
	220	6.3×11	400	0.22	0.87
	330	6.3×11	400	0.22	0.87
	470	8×11.5	640	0.13	0.52
	1000	10×16	1210	0.062	0.25
	2200	12.5×20	1900	0.041	0.14
	3300	12.5×25	2230	0.032	0.11
	4700	16×25	2930	0.021	0.060
	6800	16×31.5	3450	0.019	0.056
25	33	5×11	250	0.40	1.2
	47	5×11	250	0.40	1.2
	100	5×11	250	0.40	1.2
	220	6.3×11	400	0.22	0.87
	330	8×11.5	640	0.13	0.52
	470	10×12.5	865	0.080	0.32
	1000	10×20	1400	0.046	0.18
	2200	12.5×25	2230	0.032	0.11
	3300	16×25	2930	0.021	0.060
	4700	16×31.5	3450	0.019	0.056
35	33	5×11	250	0.40	1.2
	47	5×11	250	0.40	1.2
	100	6.3×11	400	0.22	0.87
	220	8×11.5	640	0.13	0.52
	330	10×12.5	865	0.080	0.32
	470	10×16	1210	0.062	0.25
	1000	12.5×20	1900	0.041	0.14
	2200	16×25	2930	0.021	0.060
	3300	16×31.5	3450	0.019	0.056

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
				20℃, 100kHz	−10℃, 100kHz
50	1	5×11	30	4.0	8.0
	2.2	5×11	43	2.5	6.0
	3.3	5×11	53	2.2	5.6
	4.7	5×11	88	1.9	5.0
	10	5×11	100	1.5	4.0
	22	5×11	180	0.70	2.8
	33	5×11	250	0.70	2.8
	47	6.3×11	295	0.30	1.2
	100	8×11.5	555	0.17	0.68
	220	10×16	1050	0.084	0.34
	330	10×20	1220	0.060	0.24
	470	12.5×20	1660	0.045	0.15
	1000	16×25	2730	0.032	0.096
	2200	16×35.5	3150	0.019	0.057
63	10	5×11	173	0.88	3.5
	22	5×11	173	0.88	3.5
	33	6.3×11	278	0.35	1.4
	47	6.3×11	278	0.35	1.4
	100	10×12.5	725	0.15	0.60
	220	10×20	1200	0.078	0.31
	330	12.5×20	1570	0.060	0.19
	470	12.5×25	1990	0.043	0.14
	1000	16×25	2730	0.032	0.096
100	1	5×11	20	4.5	15.0
	2.2	5×11	30	3.0	13.0
	3.3	5×11	40	2.7	11.0
	4.7	5×11	65	2.5	10.0
	10	6.3×11	267	0.57	2.3
	22	6.3×11	267	0.57	2.3
	33	8×11.5	462	0.36	1.4
	47	8×16	585	0.25	1.0
	100	10×20	1040	0.12	0.52
	220	12.5×25	1620	0.060	0.23
	330	16×25	2210	0.044	0.16

Mouser Electronics

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Rubycon:

100YXJ100M10X20 100YXJ10M6.3X11 100YXJ1M5X11 100YXJ220M12.5X25 100YXJ22M6.3X11 100YXJ2R2M5X11 63YXJ220M10X20 63YXJ22M5X11 63YXJ330M12.5X20 63YXJ33M6.3X11 63YXJ470M12.5X25 63YXJ47M6.3X11 6.3YXJ4700M12.5X25 6.3YXJ470M6.3X11 6.3YXJ6800M12.5X25 63YXJ1000M16X25 63YXJ100M10X12.5 63YXJ10M5X11 6.3YXJ100M5X11 6.3YXJ15000M16X35.5 6.3YXJ2200M10X16 6.3YXJ220M5X11 6.3YXJ3300M10X20 6.3YXJ330M6.3X11 50YXJ3R3M5X11 50YXJ470M12.5X20 50YXJ47M6.3X11 50YXJ4R7M5X11 6.3YXJ10000M16X25 6.3YXJ1000M8X11.5 50YXJ2200M16X35.5 50YXJ220M10X16 50YXJ22M5X11 50YXJ2R2M5X11 50YXJ330M10X20 50YXJ33M5X11 35YXJ470M10X16 35YXJ47M5X11 50YXJ1000M16X25 50YXJ100M8X11.5 50YXJ10M5X11 50YXJ1M5X11 35YXJ100M6.3X11 35YXJ2200M16X25 35YXJ220M8X11.5 35YXJ3300M16X31.5 35YXJ330M10X12.5 35YXJ33M5X11 25YXJ330M8X11.5 25YXJ33M5X11 25YXJ4700M16X31.5 25YXJ470M10X12.5 25YXJ47M5X11 35YXJ1000M12.5X20 16YXJ6800M16X31.5 25YXJ1000M10X20 25YXJ100M5X11 25YXJ2200M12.5X25 25YXJ220M6.3X11 25YXJ3300M16X25 16YXJ220M6.3X11 16YXJ3300M12.5X25 16YXJ330M6.3X11 16YXJ4700M16X25 16YXJ470M8X11.5 16YXJ47M5X11 10YXJ4700M12.5X25 10YXJ470M6.3X11 10YXJ6800M16X25 16YXJ1000M10X16 16YXJ100M5X11 16YXJ2200M12.5X20 10YXJ1000M10X12.5 10YXJ100M5X11 10YXJ2200M10X20 10YXJ220M5X11 10YXJ3300M12.5X20 10YXJ330M6.3X11 100YXJ330M16X25 100YXJ33M8X11.5 100YXJ3R3M5X11 100YXJ47M8X16 100YXJ4R7M5X11 10YXJ10000M16X31.5 25YXJ220MTA6.3X11