

FEATURES

LOW ESR @ HIGH FREQUENCY
HIGH RIPPLE CURRENT CAPABILITY
LOAD LIFE 2,000 HOURS
LOW PROFILE
RoHs COMPLIANT

PART NUMBERING

Part Number Example: CPX-6R3/471M6X11F							
CPX	-	6R3	/	471	M	6X11	F
Type		Rated DC Voltage		Capacitance Code (μF)*	Tolerance Code	Size	RoHs Compliant

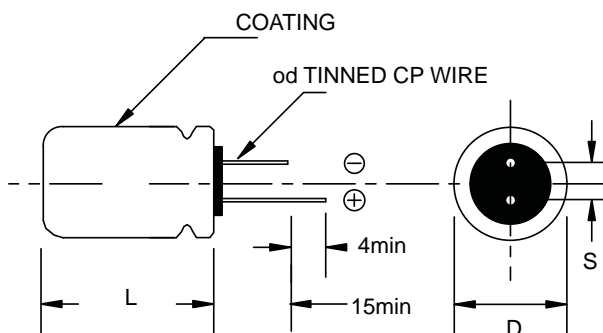
* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).

SPECIFICATIONS

ITEM	CHARACTERISTICS	
OPERATING TEMPERATURE RANGE	-55+105°C	
WORKING VOLTAGE RANGE	2.5 ~ 25vdc	
CAPACITANCE RANGE	10 ~ 680μF	
CAPACITY TOLERANCE	±20% (120Hz 20°C)	
LEAKAGE CURRENT (+20°C) MAX	SEE TABLE	
DF (%) @ 120Hz 20°C	SEE TABLE	
ESR @ 100 ~ 300KHz	SEE TABLE	
ENDURANCE 105°C 2,000Hrs @ RATED VOLTAGE	CAPACITANCE CHANGE	WITHIN ±20% PRE-TEST VALUE
	LEAKAGE CURRENT	LESS THAN SPECIFIED VALUE
	DF	LESS THAN 150% SPECIFIED VALUE
MOISTURE RESISTANCE @ 60°C RH 90 ~ 95% 2,000Hrs	CAPACITANCE CHANGE	WITHIN ±20% PRE-TEST VALUE
	LEAKAGE CURRENT	LESS THAN SPECIFIED VALUE
	DF	LESS THAN 150% SPECIFIED VALUE

FREQUENCY COEFFICIENT FOR RIPPLE CURRENT

FREQUENCY	120Hz	1KHz	10KHz	100KHz
COEFFICIENT	0.05	0.3	0.7	1



D X L	D+.5 max	L MAX	S	d ± 0.5
4X5	4	6.0	1.5	0.45
5X5	5	5.0	2.0	0.45
6.3X5.2	6.3	6.2	2.5	0.45
6.3X7	6.3	8.0	2.5	0.45
6.3X10	6.3	11.0	2.5	0.6

VOLTS (DC)	CAP. (μF)	LEAKAGE (μA)	DF (%)	ESR (mΩ)	RIPPLE (A.r.m.s.)	SIZE DXL(mm)
2.5	100	300	8	30	1.67	4X5
		300	8	30	1.97	5X5
	150	300	8	30	1.97	5X5
		300	8	30	2.2	6.3X5.2
	180	300	8	30	1.97	5X5
		300	8	30	2.2	6.3X5.2
	220	300	8	30	2.2	5X5
		300	8	30	2.61	6.3X5.2
	270	300	8	25	2.61	6.3X5.2
		300	8	20	2.69	6.3X7
	330	300	8	25	2.61	6.3X5.2
		300	8	20	2.69	6.3X5.2 /6.3X7
	390	300	8	20	2.69	6.3X5.2 /6.3X7
	470	300	8	15	3.1	6.3X5.2 /6.3X7
560	300	8	15	3.1	6.3X7	
680	300	8	15	3.5	6.3X11	
4.0	100	300	8	30	1.97	5X5
	150	300	8	30	2.2	6.3X5.2
		300	8	25	2.67	6.3X7
	180	300	8	30	2.2	6.3X5.2
		300	8	25	2.67	6.3X7
	220	300	8	25	2.61	6.3X5.2
		300	8	20	2.69	6.3X7
	270	300	8	25	2.61	6.3X5.2
		300	8	20	2.69	6.3X7
	330	300	8	20	2.69	6.3X5.2
		300	8	15	3.1	6.3X5.2 /6.3X7
	390	300	8	15	3.1	6.3X5.2 /6.3X7
470	300	8	15	3.1	6.3X7	
560	300	8	15	3.5	6.3X11	
6.3	47	300	8	25	2.69	6.3X7
	100	300	8	25	2.39	6.3X5.2
		300	8	20	2.69	6.3X7
	150	300	8	25	2.39	6.3X5.2
		300	8	20	2.69	6.3X7
	180	300	8	20	2.69	6.3X5.2 /6.3X7
	220	300	8	15	3.1	6.3X5.2 /6.3X7
	270	300	8	15	2.69	5X8
		300	8	15	3.1	6.3X5.2 /6.3X7
	330	300	8	15	3.1	6.3X5.2 /6.3X7
470	300	8	15	3.5	6.3X11	

RIPPLE CURRENT @ 105°C 100KHZ

VOLTS (DC)	CAP. (μF)	LEAKAGE (μA)	DF (%)	ESR (mΩ)	RIPPLE (A.r.m.s.)	SIZE DXL(mm)
10	10	300	8	45	1.2	4X5
	15	300	8	45	1.2	4X5
	22	300	8	45	1.2	4X5
	33	300	8	45	1.67	5X5
		300	8	30	2.2	6.3X5.2
	39	300	8	45	1.67	5X5
		300	8	30	2.2	6.3X5.2
	47	300	8	30	2.2	6.3X5.2
		300	8	20	2.69	6.3X7
	56	300	8	20	2.2	6.3X5.2
	68	300	8	30	2.2	6.3X5.2
		300	8	20	2.69	6.3X7
	82	300	8	30	2.2	6.3X5.2
		300	8	20	2.69	6.3X7
	100	300	8	30	2.2	6.3X5.2
		300	8	20	2.69	6.3X7
	150	300	8	20	2.69	6.3X7
180	300	8	20	2.69	6.3X7	
220	300	8	20	2.69	6.3X7	
270	300	8	15	3.5	6.3X11	
330	300	8	15	3.5	6.3X11	
16	10	300	8	30	2.2	6.3X5.2
		300	8	25	2.61	6.3X7
	15	300	8	30	2.2	6.3X5.2
		300	8	25	2.61	6.3X7
	22	300	8	30	2.2	6.3X5.2
		300	8	25	2.61	6.3X7
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		300	8	20	2.69	6.3X7
	82	300	8	20	2.69	6.3X7
	100	300	8	20	2.69	6.3X7
300		8	15	3.1	6.3X8	
300		8	15	3.5	6.3X11	
220	300	8	15	3.5	6.3X11	
20	10	300	8	30	2.2	6.3X5.2
		300	8	25	2.67	6.3X7
	15	300	8	30	2.2	6.3X5.2
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25	10	300	8	30	2.2	6.3X5.2
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