FEATURES

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

PART NUMBERING

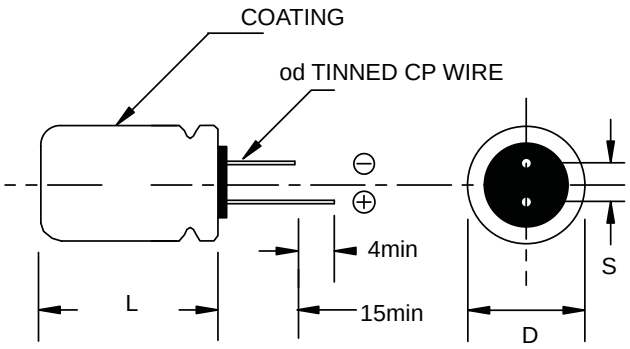
Part Number Example: CPL-6R3/331M8X11F							
CPL	**-**	**6R3**	**/**	**331**	**M**	**8X11**	**F**
Type		Rated DC Voltage		Capacitance Code (μF)*	Tolerance Code	Size	RoHs Compliant
* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).							

SPECIFICATIONS

ITEM	CHARACTERISTICS	
OPERATING TEMPERATURE RANGE	-55+105°C	
WORKING VOLTAGE RANGE	2.5 ~ 16vdc	
CAPACITANCE RANGE	180 ~ 3,500μF	
CAPACITANCE TOLERANCE	±20% (120Hz 20°C)	
LEAKAGE CURRENT (+20°C) MAX	≤0.2 CV + 100μA AFTER 2 MINUTES @ rated voltage	
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
8X8	8.0	8.5	3.5	0.6
8X11.5	8.0	12	3.5	0.6
10X12.5	10.0	13	5.0	0.6

VOLTS (DC)	CAP. (µF)	LEAKAGE (µA)	DF (%)	ESR (mΩ)	MAX RIPPLE (Ar.m.s.)	SIZE DXL(mm)
2.5	560	280	8	7	5.0	8X8
						8X11.5
	680	340	8	7	5.6	8X8
						8X11.5
	820	410	8	7	5.6	8X8
						8X11.5
	1,500	750	8	7	5.6	8X11.5
	2,500	1,250	8	7	6.1	10X12.5
	3,500	1,250	8	7	6.1	10X12.5
4.0	560	224	8	7	5.6	8X8
						8X11.5
	680	328	8	7	5.6	8X8
						8X11.5
	820					
	1000	960	8	7	5.6	8X11.5
	1200					
	1,500	1,200	8	7	6.1	10X12.5
	2,500	1,500	8	7	6.1	10X12.5
6.3	150	189	7	7	5.6	8X11.5
	220	277	7	7	5.6	8X11.5
	330	416	7	7	5.1	8X8
					5.6	8X11.5
	390	245.7	8	7	5.6	8X11.5
	470	592	8	7	5.6	8X11.5
	680	428	8	7	6.1	10X12.5
	820	516.6	10	7	6.1	10X12.5
	1,000	630	10	7	6.1	10X12.5
	2,000	1,260	10	7	6.1	10X12.5
	100	100	7	8	5.6	8X11.5
	220	440	7	8	5.6	8X11.5
	470	470	8	8	6.1	10X12.5
	560	560	10	8	6.1	10X12.5
	680	680	10	8	6.1	10X12.5
	820	820	10	8	6.1	10X12.5
	1,000	1,000	10	8	6.1	10X12.5
	68	108	8	8	5.6	8X11.5
	100	160	8	8	5.6	8X11.5
	180	288	8	8	5.6	8X11.5
	330	528	8	8	5.6	8X11.5
					6.1	10X12.5
	470	752	10	8	6.1	10X12.5
	680	1,000	10	8	6.1	10X12.5
	820	1,280	10	8	6.1	10X12.5

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RIPPLE CURRENT @ 105°C 100KHZ

VOLTS (DC)	CAP. (μF)	LEAKAGE (μA)	DF (%)	ESR (mΩ)	MAX RIPPLE (Ar.m.s.)	SIZE DXL(mm)
10	180	180	7	7	5.6	8x11.5
	220	220	8	7	5.6	8x11.5
	270	270	8	7	5.6	8x11.5
	330	330	8	7	5.6	8x11.5
	390	390	8	7	5.6	8x11.5
	470	470	8	7	6.1	8x8
					5.6	8x11.5
	560	560	10	7	5.6	8x11.5
	680	680	10	7	6.1	10x12.5
	820	820	10	7	6.1	10x12.5
	1000	1000	10	7	6.1	10x12.5
16	180	288	8	7	5.6	8x11.5
	220	352	8	7	5.6	8x11.5
	270	432	8	7	5.6	8x11.5
	330	528	8	7	5.6	8x11.5
					6.1	10x12.5
	390	624	8	7	6.1	10x12.5
	470	752	10	7	5.6	8x11.5
					6.1	10x12.5
	560	896	10	7	6.1	10x12.5
	680	1000	10	7	6.1	10x12.5
	820	1280	10	7	6.1	10x12.5

RIPPLE CURRENT @ 105°C 100KHZ