

FEATURES

- High power,high energy density
- Low leakage current, long life
- Plastic, Moisture Resistant Version
- Guaranteed 70°C 5.5 V.DC 1000 h
- Guaranteed 85°C 4.6 V.DC 1000 h

APPLICATIONS

- Consumer electronics
- GSM/GPRS Pulse Applications
- Back up power
- Stand alone or augment existing
- energy/power source



OPERATING TEMPERATURE RANGE

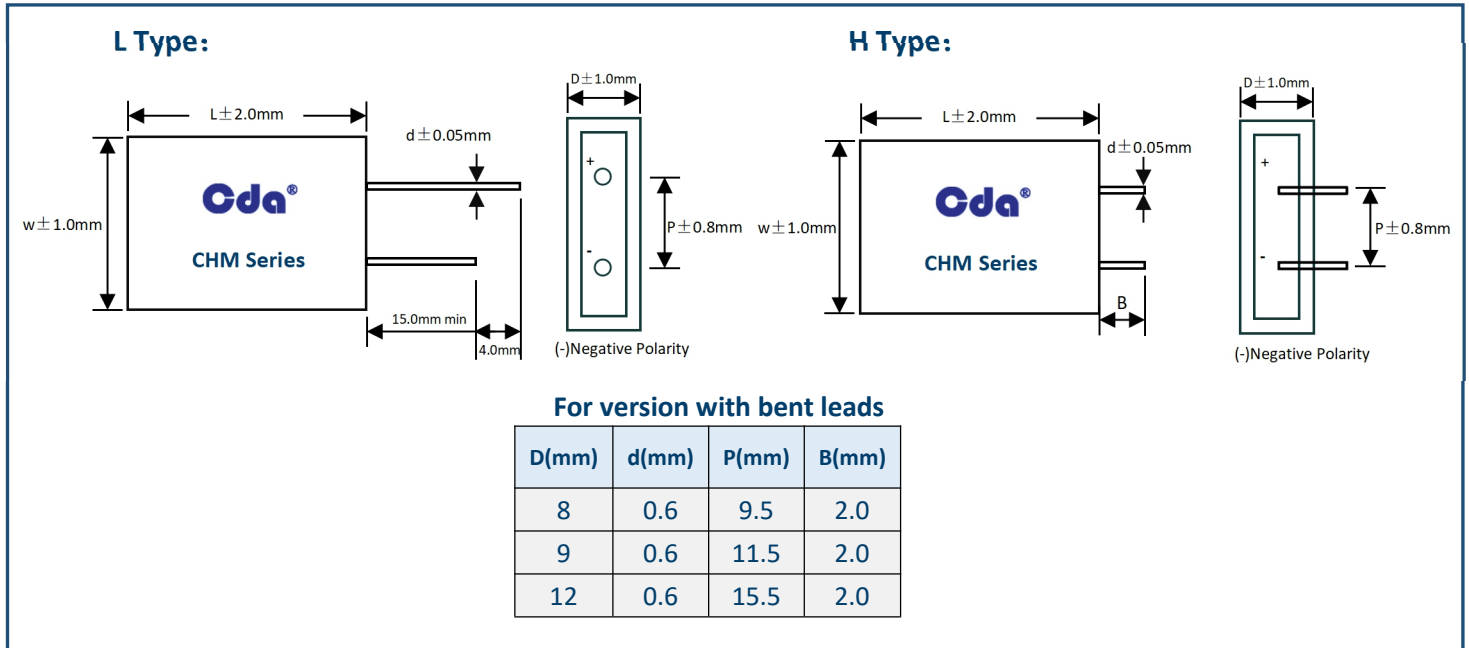
Operating temperature	5.5V Series		6.0V Series		7.5V Series		8.1V Series		9.0V Series	
	Balanced	Unbalanced	Balanced	Unbalanced	Balanced	Unbalanced	Balanced	Unbalanced	Balanced	Unbalanced
-40°C to +65°C	5.5V	5.1V	6.0V	5.6V	7.5V	7.1V	8.1V	7.7V	9.0V	8.6V
-40°C to +85°C	4.6V	4.2V	5.2V	4.8V	6.6V	6.2V	7.3V	6.9V	8.2V	7.8V

*With appropriate voltage operating temperature can be extended to 85°C

GENERAL SPECIFICATIONS

Item	Performance
Storage temperature	-40°C to +65°C
Capacitance range	0.22F to 5.0F
Capacitance tolerance	-10%~+30%; -0%~+100%
Rated voltage	5.5 V;7.5V;8.1V;9.0V
High Temperature Load Life	Temperature:+65°C Voltage:Rated Voltage Test Duration:2,000 hours
Endurance (At rated voltage & max. operating temp)	After 2000 hours: Capacitance change: ±30% of initial rated value Internal resistance: Within 2 times of initial specified value
Projected cycle life (From rated voltage to 1/2 rated voltage at 25°C)	After 500,000 cycles: Capacitance change: Within ±30 % of initial rated value Internal resistance: Within 2 times of initial specified value
Humidity	Voltage:Rated Voltage RH:90% Temperature:++60°C ; Test Duration:1,500 hours

DIMENSIONS(5.5V/6.0V)

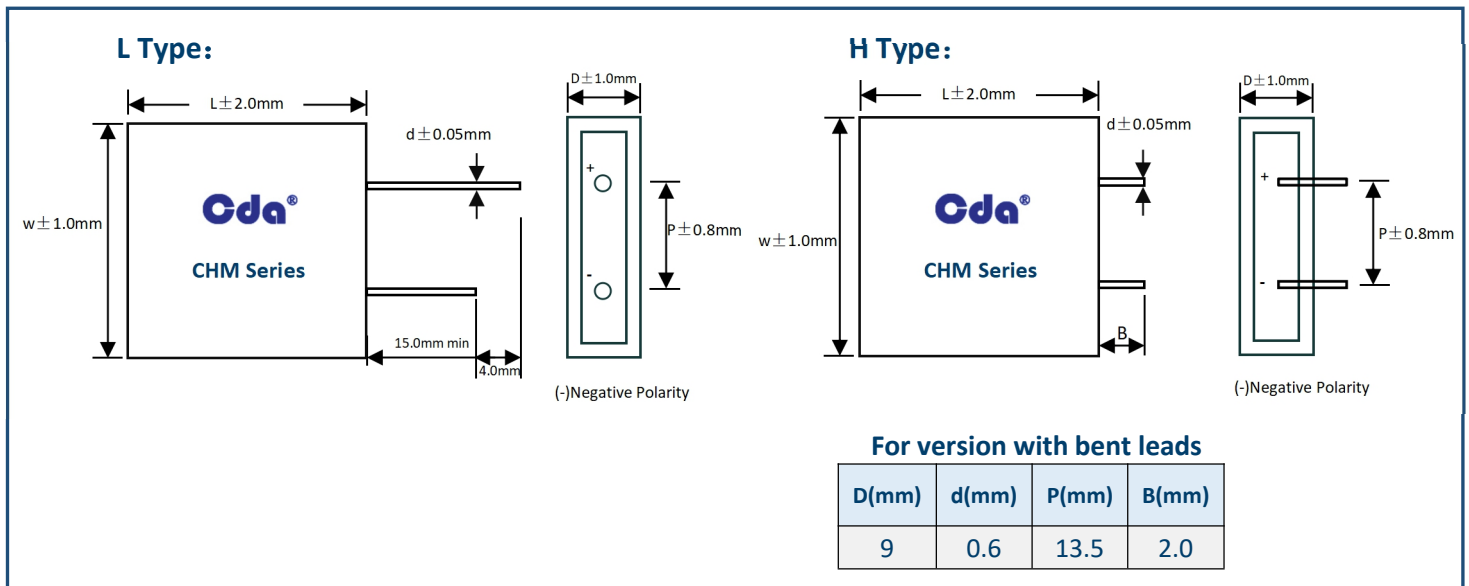


STANDARD PRODUCTS (5.5V/6.0V)

Part Number	Rated Voltage (V)	Rated Cap. (F)	Size ΦWxDxL (mm)	Max.ESR	Maximum Endurance Current(A)	Maximum Peak Current(A)	Maximum Leakage Current (72hrs/mA)	Power Density (W/Kg)	Maximum Energy (W.h)	Energy Density (Wh/kg)
				ESRAC (1kHz/mΩ)						
CHM-5R5L224R-TW	5.5	0.22	15X8X16	700	0.16	0.37	0.003	403.3	0.0009	0.31
CHM-5R5L334R-TW	5.5	0.33	18X9X16	600	0.21	0.51	0.003	398.0	0.0014	0.36
CHM-5R5L474R-TW	5.5	0.47	18X9X16	360	0.26	0.75	0.003	709.0	0.0020	0.62
CHM-5R5L474R-TWX	5.5	0.47	15X8X16	500	0.18	0.61	0.003	648.2	0.0020	0.71
CHM-5R5L105R-TW	5.5	1.0	18X9X20	240	0.44	1.59	0.006	938	0.0042	0.98
CHM-5R5L155R-TW	5.5	1.5	18X9X24	190	0.54	2.32	0.01	1171.0	0.0063	1.02
CHM-5R5L255R-TW	5.5	2.5	23X12X25	180	0.75	3.45	0.02	1114.2	0.0105	1.16
CHM-5R5L355R-TW	5.5	3.5	23X12X25	160	0.79	3.65	0.023	1078.4	0.0147	1.57
CHM-5R5L505R-TW	5.5	5.0	23X12X29	150	1.17	5.35	0.028	2063	0.0147	2.70
CHM-6R0L224R-TW	6.0	0.22	15X8X16	700	0.18	0.42	0.003	502.5	0.0013	0.42
CHM-6R0L334R-TW	6.0	0.33	18X9X16	600	0.26	0.58	0.003	614.3	0.0017	0.46
CHM-6R0L474R-TW	6.0	0.47	18X9X16	360	0.32	0.78	0.003	1029	0.0024	0.78
CHM-6R0L474R-TWX	6.0	0.47	15X8X16	500	0.25	0.69	0.003	1196	0.0024	0.85
CHM-6R0L105R-TW	6.0	1.0	18X9X20	240	0.51	1.72	0.006	1432	0.0042	1.12
CHM-6R0L155R-TW	6.0	1.5	18X9X24	190	0.59	2.45	0.01	1876	0.0075	2.03
CHM-6R0L255R-TW	6.0	2.5	23X12X25	180	0.81	3.59	0.02	2488	0.0125	2.42

CHM-6R0L355R-TW	6.0	3.5	23X12X25	160	0.87	3.88	0.023	2762	0.0205	2.72
CHM-6R0L505R-TW	6.0	5.0	23X12X29	150	1.32	6.52	0.028	3151	0.0250	3.68

DIMENSIONS(7.5V/8.1V/9.0V)



STANDARD PRODUCTS(7.5V/8.1V/9.0V)

Part Number	Rated Voltage (V)	Rated Cap. (F)	Size	Max.ESR	Maximum Endurance Current(A)	Maximum Peak Current(A)	Maximum Leakage Current (72hrs/mA)	Power Density (W/Kg)	Maximum Energy (W.h)	Energy Density (Wh/kg)
			ΦWxDxL (mm)	ESRAC (1kHz/mΩ)						
CHM-7R5L334R-TW	7.5	0.33	26X9X16	600	0.26	0.75	0.006	511.4	0.0026	0.47
CHM-7R5L604R-TWX	7.5	0.6	26X9X16	460	0.26	1.04	0.008	544.8	0.0047	0.79
CHM-7R5L604R-TW	7.5	0.6	26X9X20	350	0.44	1.59	0.008	698.8	0.0047	0.68
CHM-7R5L105R-TW	7.5	1	26X9X24	285	0.54	2.32	0.01	1058.8	0.0078	0.92
CHM-8R1L334R-TW	8.1	0.33	26X9X16	540	0.26	0.75	0.003	627.8	0.0030	0.53
CHM-8R1L604R-TW	8.1	0.6	26X9X20	400	0.43	1.57	0.008	924.1	0.0055	0.77
CHM-8R1L105R-TW	8.1	1.0	26X9X24	350	0.53	2.28	0.01	914.4	0.0091	1.11
CHM-9R0L334R-TW	9.0	0.33	26X9X16	540	0.26	0.83	0.006	775.1	0.0037	0.65
CHM-9R0L604R-TW	9.0	0.6	26X9X20	400	0.43	1.74	0.01	1140.8	0.0068	0.95
CHM-9R0L105R-TW	9.0	1.0	26X9X24	350	0.53	2.53	0.014	1128.9	0.0113	1.37
CHM-9R0L155R-TW	9.0	1.5	26X9X24	300	0.54	3.13	0.014	1227.3	0.0169	1.92

Note: Adds passive balance. Balance options can be provided upon request. Customers can choose according to the applicati