



**FEATURES**

- Compact size, high capacitance
- Long life: 1,000 hours at +70°C / +60°C
- Compliant with REACH and RoHS directives

**APPLICATIONS**

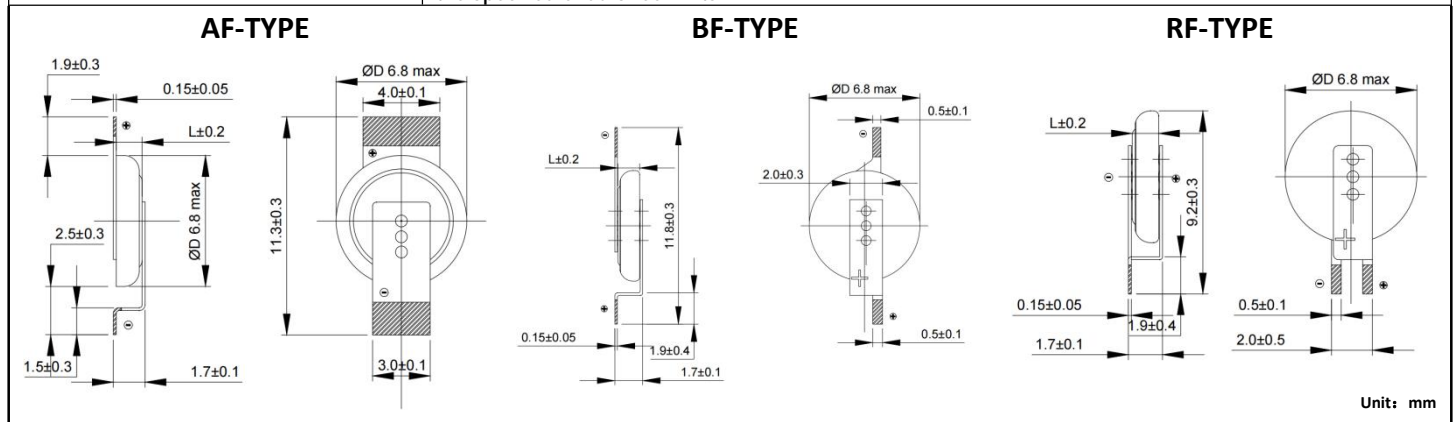
- Backup power for video equipment, audio equipment, cameras, televisions, printers, telephones, car audio systems, electricity meters, toys, desktop computers, laptops, rice cookers, home networks, communication modules, GPS devices, drones, etc.



PART NUMBER SYSTEM					
<b>CDM</b>	<b>3R3</b>	<b>224</b>	<b>R</b>	<b>F</b>	<b>**</b>
Series	Rated Voltage	Capacitance	Type	RoHS	Special Code

**GENERAL SPECIFICATIONS / DIMENSIONS**

Item	Performance			
Operating temperature	-25°C to +70°C		-10°C to +60°C	
Capacitance range	0.20F to 0.22F		0.20F to 0.22F	
Capacitance tolerance	- 20% to + 80% (@25°C)		- 20% to + 80% (@25°C)	
Rated voltage	2.5 V DC		3.3 V DC	
Nominal capacitance (F)	0.20	0.22	0.20	0.22
Nominal resistance (Ω)	100	100	200	200
Temperature characteristics	At maximum or minimum temperatures: Capacitance change: Within ±30% of the initial specified value at +20°C Internal resistance change: Within ±500% of the initial specified value at +20°C		At maximum or minimum temperatures: Capacitance change: Within ±50% of the initial specified value at +20°C Internal resistance change: Within ±500% of the initial specified value at +20°C	
Endurance (Max. Operating temp)	After 1,000 hours: Capacitance change: ±30% of initial specified value Internal resistance change: 1.5 kΩ max.		After 1,000 hours: Capacitance change: ±30% of the initial specified value Internal resistance change: 2.5 kΩ max.	
Shelf life	After storage for one year at 25°C and ≤50% humidity under no-load conditions, the capacitor shall meet the specified endurance limits.			



**STANDARD PRODUCTS**

Part Number	Working Voltage (V DC)	Rated Cap. (F)	AF-TYPE(mm)	
			ΦD	L
CDM2R5204AF	2.5	0.20	6.8	1.4
CDM2R5224AF	2.5	0.22	6.8	1.4
CDM3R3204AF	3.3	0.20	6.8	1.4
CDM3R3224AF	3.3	0.22	6.8	1.4

Part Number	Working Voltage (V DC)	Rated Cap. (F)	BF-TYPE(mm)	
			ΦD	L
CDM2R5204BF	2.5	0.20	6.8	1.4
CDM2R5224BF	2.5	0.22	6.8	1.4
CDM3R3204BF	3.3	0.20	6.8	1.4
CDM3R3224BF	3.3	0.22	6.8	1.4

Part Number	Working Voltage (V DC)	Rated Cap. (F)	RF-TYPE(mm)	
			ΦD	L
CDM2R5204RF	2.5	0.20	6.8	1.4
CDM2R5224RF	2.5	0.22	6.8	1.4
CDM3R3204RF	3.3	0.20	6.8	1.4
CDM3R3224RF	3.3	0.22	6.8	1.4

**Safety Precautions:**

- Do not apply external force to the product or terminals (such as twisting, bending, pushing, or striking); doing so may cause the product or terminals to detach, resulting in an open circuit, short circuit, or liquid leakage.
- Do not overheat the capacitor during heating in an adhesive curing oven. For details, please refer to the "Precautions for Use of Electric Double-Layer Capacitors."
- **Reflow soldering is prohibited; only manual soldering is supported. Please refer to the manual on the official website for details.**