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Quick Facts

- Large capacitance range
- Low leakage current
- Extended endurance
- Small case sizes
- Low ESR

Nichicon Capacitors for the Home and Safety Device Market

The latest trends in the safety device market include devices that are easily retrofitted, maintenance free, and smaller sized. In order to meet these trends, Nichicon has an array of capacitors for this market.



Consumer devices must be easy for customers to install without complicated wiring. As a result, many home products are battery powered. These devices demand capacitors with low leakage current in order to preserve the life of the battery. Maintenance free products require capacitors with long life. Furthermore, as the size of safety devices decrease, so must the size of the components.

Featured Nichicon capacitors for this market include the UPW, UCM, UUR, and LGU series.

Advantage #1: Long Life

- The UPW series has up to 8,000hrs of life at 105C in many case sizes. As a general rule, each 10C decrease in ambient temperature doubles the life of the capacitor.

Advantage #2: Miniature Sized

- The UUR, UCM, and UPW series all feature smaller case sizes that can fit in the smallest of applications.

Advantage #3: Low Impedance

- Low impedance allows a capacitor to withstand higher ripple current. Ripple current generates internal heat and too much heat can reduce the life of the capacitor. Parts such as the UCM, UPW, and LGU feature low impedance and allow higher ripple current.

Advantage #4: Low Leakage Current

- The liquid electrolyte in aluminum capacitors allows for healing of the oxide layer once voltage is applied across the capacitor. This results in very low leakage current over time.

Advantage #5: Wide Capacitance Range

- The LGU series has a capacitance range from 47uF-47,000uF.

Contact Us:

Nichicon (America) Corporation

<http://www.nichicon-us.com>

P— (847) 843-7500

F— (847) 843-2798

E— marketing@nichicon-us.com

Check Us Out:



facebook.com/NichiconUS

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Safety Device Product Offerings

Series	Type	Life (Hrs)	Voltage	Capacitance	ESR (Ohms)
LGU	Snap-In	3000	16-450V	47-47000uF	.018-7.1
UCM	SMD	2000	6.3-50V	10-2200uF	.06-2.3
UUR	SMD	2000	4-100V	3.3-1500uF	.31-60.3
UPW	Radial	2000-8000	6.3-450	.47-1500uF	.014-43

Applications

- ◆ Fire alarms
- ◆ Emergency lighting
- ◆ Fire/security control panel
- ◆ Voice evacuation system
- ◆ Motion sensors
- ◆ Security cameras
- ◆ Smart thermostats, lighting controls, automated door locks



Focus Markets

- Fire and Safety
- Security Control
- Smart Home

