



Development of HXA Series of SMD-Type Conductive Polymer Hybrid Aluminum Electrolytic Capacitors

High reliability, high withstand voltage, compact in size, and low ESR characteristics achieved

Nippon Chemi-Con Corporation has developed the HXA series of surface mount type conductive polymer hybrid aluminum electrolytic capacitors for use in the automotive electronics products and industrial equipment markets where high reliability and a high withstand voltage are required. This new product uses both a conductive polymer and a liquid electrolyte, realizing low ESR characteristics that cannot be achieved with conventional aluminum electrolytic capacitors and a higher capacitance and higher withstand voltage than conductive polymer aluminum solid capacitors.



The ESR of the HXA series is 20 to 120 m Ω , which is about one tenth that of low ESR type aluminum electrolytic capacitors (125°C products). The leakage current is also reduced to about one twentieth that of conventional conductive polymer aluminum solid capacitors.

<<Mass production schedule>>

Sample HXA series started shipping in July this year, with mass production to start in January next year.

<<Specifications>>

Category temperature range	-55 – +125°C
Endurance	4000 hours at 125 °C
Rated voltage range	25 – 63Vdc
Rated capacitance range	10 – 330 μ F
ESR	20 – 120m Ω / 100kHz
Case size	ϕ 6.3 \times 5.8Lmm
	ϕ 6.3 \times 7.7Lmm
	ϕ 8.0 \times 10.0Lmm
	ϕ 10.0 \times 10.0Lmm