



Development of MHL Series of SMD-Type Aluminum Electrolytic Capacitors

**2000 to 4000 hours operation at 125°C guaranteed
and twice the lifetime of conventional products achieved**

Nippon Chemi-Con Corporation has developed the MHL series of surface mount type aluminum electrolytic capacitors that last twice as long as conventional products.

The MHL series guarantees 2000 to 4000 hours operation at 125°C, which is twice the durability of conventional products. In addition, low ESR and size as small as or smaller than conventional products have also been achieved. MHL series are recommended for car electronics applications where high reliability is required.



<<Mass production schedule>>

Sample MHL series with a rated voltage of 35 V and capacitance of 100 μ F (size of 6.3 ϕ \times 8 mm) started shipping in June this year, with the shipment of sample products with different items to start in August this year. Mass production will start in October this year.

<<Specifications>>

Category temperature range	-40 – +125°C			
Rated voltage range	10 – 35Vdc			
Rated capacitance range	47 – 470 μ F			
Case size	ϕ 6.3 \times 5.8L – ϕ 10 \times 10Lmm (4 sizes)			
Endurance	Size	Endurance		
	ϕ 6.3 \times 5.8L (F61)	2000 hours at 125°C		
	ϕ 6.3 \times 7.7L (F80)	2000 hours at 125°C		
	ϕ 8 \times 10L (HA0)	4000 hours at 125°C		
	ϕ 10 \times 10L (JA0)	4000 hours at 125°C		
Initial ESR (Ω _{max} / 100kHz) and Rated ripple current (mA _{rms} / 125°C , 100kHz)	Size (mm)	Voltage Range	10 – 35WV	
		20 °C	-40°C	Rated ripple
	ϕ 6.3 \times 5.8L (F61)	1.2	22	110
	ϕ 6.3 \times 7.7L (F80)	0.6	12	220
	ϕ 8 \times 10L (HA0)	0.3	5.5	296
ϕ 10 \times 10L (JA0)	0.2	3.6	440	