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# Japanese Manufacturers

Very good, but can be faked.

Marking	Brand
Empty rectangle	Chemi-Con
KZE, KZJ, KZG	Chemi-Con
[M]	Panasonic
Rubycon	Rubycon
Sanyo	Sanyo
Nichicon	Nichicon

## Taiwan Manufacturers

Marking	Brand
Teapo	Teapo

## Lifespan

The normal lifespan of a non-solid electrolytic capacitor of consumer quality, typically rated at 2000 h/85 °C and operating at 40 °C, is roughly 6 years. It can be more than 10 years for a 1000 h/105 °C capacitor operating at 40 °C. Electrolytic capacitors that operate at a lower temperature can have a considerably longer lifespan.

Nominal Value	105°C	2 000h	95°C	85°C
Real temp	95°C	4 000h	2 000h	-
Real temp	85°C	8 000h	4 000h	2 000h
Real temp	75°C	16 000h	8 000h	4 000h
Real temp	65°C	32 000h	16 000h	8 000h
Real temp	55°C	64 000h	32 000h	16 000h
Real temp	45°C	128 000h	64 000h	32 000h

## Polymer

This rule characterizes the change of thermic polymer reactions speed within the specified degradation limits. According to this formula the theoretical expected service life of a 2000 h/105 °C polymer capacitor, which is operated at 65 °C, can be calculated (better estimated) with about 200,000 hours or approximately 20 years.

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