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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.