

# EEEFK1V151P

150  $\mu$ F / 35 V Surface-Mount Aluminium Electrolytic Capacitor  
Panasonic FK Series · V-chip SMD · AEC-Q200 automotive grade



The EEEFK1V151P is a polarised, surface-mount (V-chip) aluminium electrolytic capacitor from the Panasonic FK series, rated 150  $\mu$ F at 35 V. It stores charge in an aluminium-oxide dielectric and is built for low impedance, high ripple-current capability and long operating life in a compact 8 mm-diameter can. Typical roles are output/input smoothing and decoupling in DC-DC converters, power-supply filtering, and buffering on densely populated boards where through-hole parts won't fit.

## General / Identification

Component type	Aluminium electrolytic capacitor, polarised
Mounting	Surface mount (V-chip / radial-can SMD)
Series	FK (high-temperature, low-impedance)
Nominal capacitance	150 $\mu$ F
Rated voltage (DC)	35 V
Capacitance tolerance	$\pm$ 20% (M)

## Electrical / Performance

Rated capacitance	150 $\mu$ F
Rated voltage	35 V DC
Rated ripple current	600 mA r.m.s. (high-freq.) / 450 mA @120 Hz (estimate — confirm against unit)
Equivalent series resistance (ESR)	Low-ESR series; value not published per code (estimate — confirm against unit)
Dissipation factor ( $\tan \delta$ )	$\leq$ 0.12 at 120 Hz, 20°C (estimate — confirm against unit)
Leakage current	$\leq$ 52.5 $\mu$ A after 2 min (0.01CV) (estimate — confirm against unit)
Endurance / load life	2000 h @ 105°C

## Mechanical & Environmental

Case size ( $\varnothing \times L$ )	8 mm $\times$ 10.2-10.5 mm
Terminal style	Gull-wing (V-chip), solderable
Net weight	$\approx$ 1.4 g (estimate — confirm against unit)
Operating temperature	-55°C to +105°C
Pressure-relief vent	Scored top vent
Mounting process	Compatible with lead-free reflow

## Compliance / Standards

RoHS	Compliant
Automotive qualification	AEC-Q200
Soldering	Lead-free reflow compatible

## Ordering / Packaging

Base ordering code	EEEFK1V151P
Supplied as	Cut-tape / re-reel / full reel
Standard reel quantity	500 pcs/reel (estimate — confirm against unit)

Typical applications: DC-DC converter input/output smoothing, switch-mode power-supply filtering, decoupling and energy buffering, automotive and industrial electronics.