

EEE-1EA101XP

100 μ F / 25 V SMD Aluminum Electrolytic Capacitor · Panasonic “S” Series



The EEE-1EA101XP is a 100 μ F, 25 V surface-mount (V-chip) aluminum electrolytic capacitor in a compact 6.3 mm \times 7.7 mm cylindrical can on a moulded SMD base. It stores charge in a wound, electrolyte-impregnated foil element and is used for smoothing, filtering, bulk energy storage and decoupling on DC rails. The polarized device is qualified to AEC-Q200 and is RoHS compliant, making it suitable for consumer, industrial and automotive electronics assembled by reflow soldering.

General / Identification

Type	Aluminum electrolytic capacitor, surface-mount (SMD / V-chip)
Series	Panasonic “S” series (general purpose)
Construction	Polarized, wet aluminum, cylindrical can on moulded base
Capacitance	100 μ F
Capacitance tolerance	\pm 20 % (120 Hz, +20 °C)
Marking	Black sleeve; negative (–) polarity bar / chamfered base corner

Electrical

Rated voltage (DC)	25 V
Rated ripple current	143 mA rms (120 Hz, +85 °C)
Ripple current (high freq.)	243 mA rms (10 kHz, +85 °C)
Dissipation factor (tan δ)	\leq 0.14 (120 Hz, +20 °C)
Leakage current	\leq 0.01 CV or 3 μ A, whichever is greater (\approx 25 μ A after 2 min, +20 °C)
ESR / impedance	not stated for this value — confirm against unit

Mechanical & Dimensional

Case size code	D8 (ϕ 6.3 \times 7.7 L)
Body diameter (ϕ D)	6.3 mm
Body length / height	7.7 mm \pm 0.3 (seated height 7.8 mm max.)
Base (A \times B)	6.6 \times 6.6 mm
Terminal width (W)	2.6 mm
Recommended land pattern	a 1.8 / b 3.2 / c 1.6 mm (per size code D8)
Net weight	\approx 0.3 g (estimate — confirm against unit)
Mounting	Reflow solder, surface-mount

Environmental

Category temperature range	–40 °C to +85 °C
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Load life / endurance	2000 h at +85 °C
Shelf life	1000 h at +85 °C (no voltage)
Soldering	Lead-free reflow profile compatible

Compliance / Standards

Automotive qualification	AEC-Q200 compliant
Hazardous substances	RoHS compliant (EU 2011/65/EU + (EU) 2015/863)

Ordering / Packaging

Part number	EEE-1EA101XP
Packaging	Tape & reel (embossed carrier)
Reel quantity	≈ 900–1000 pcs (estimate — confirm against reel)

Typical Applications

Power-supply smoothing & output filtering · DC-DC converters · rail decoupling & bulk storage · automotive ECUs · consumer and industrial electronics.