

EEE1EA100SR

SMD Aluminium Electrolytic Capacitor

10 μ F | 25 V | \pm 20% | Surface-Mount | S Series



The SMD Aluminium Electrolytic Capacitor is a 10 μ F, 25 V surface-mount aluminium electrolytic capacitor in a compact 5.0 \times 5.4 mm cylindrical V-chip package. It stores and smooths charge for decoupling, filtering and energy buffering in DC circuits, using an aluminium-oxide dielectric formed on etched aluminium foil with a liquid electrolyte. Rated for 2000 hours at +85 $^{\circ}$ C and AEC-Q200 qualified, it is suited to both consumer and automotive-grade designs.

General / Identification

Manufacturer	Panasonic
Manufacturer part number	EEE1EA100SR
Product range / series	S Series (V type)
Capacitor type	Aluminium electrolytic, surface-mount (radial can - SMD)
Polarity	Polar (polarised)

Electrical / Performance

Capacitance	10 μ F
Capacitance tolerance	\pm 20% (120 Hz / +20 $^{\circ}$ C)
Rated voltage (DC)	25 V
Rated ripple current	28 mA r.m.s. (120 Hz / +85 $^{\circ}$ C)
Dissipation factor (tan δ)	0.14 (120 Hz / +20 $^{\circ}$ C)
Leakage current	\leq 3 μ A after 2 min (or 0.01CV, whichever is greater)
ESR	Not published — confirm against unit

Mechanical & Environmental

Case size ($\varnothing \times$ L)	5.0 mm \times 5.4 mm
Base footprint (W \times L)	5.3 mm \times 5.3 mm (estimate — confirm against unit)
Seated height (max)	5.4 mm
Terminals	SMD solder terminals (radial can - SMD)
Net weight	\approx 0.2 g (estimate — confirm against unit)
Operating temperature range	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Endurance / load life	2000 h @ +85 $^{\circ}$ C
Shelf life	1000 h @ +85 $^{\circ}$ C (no voltage), per series spec

Compliance / Standards

RoHS	Compliant
RoHS phthalates	Compliant

SVHC (REACH)	None declared
Automotive qualification	AEC-Q200

Ordering / Packaging

Marking	Black sleeve; negative-polarity bar; vent score on top
Packaging	Embossed tape & reel / cut tape (typ. 1000 pcs per reel)
Mounting	Reflow soldering (refer to series reflow profile)

Typical applications

Power-supply decoupling and smoothing, DC-DC converters, audio/video equipment, household appliances, office equipment, industrial controls, communications & networking, portable and automotive electronics.

Disclaimer: Figures marked "typical" or "estimate" are series-representative and must be confirmed against the manufacturer's manual before rated or critical use. Specifications are subject to change by the manufacturer without notice.

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