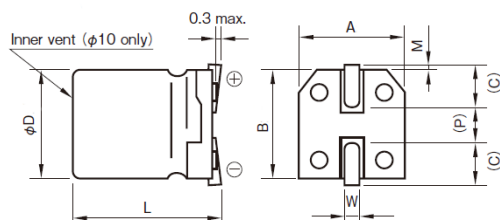


Spec Sheet

Conductive Polymer Hybrid Aluminum Electrolytic Capacitors[HVX] for Automotive Powertrain and Safety

RAHVX221M1TEH0002 (Previous PN: HVX-25V221MG10Q-R2)



() : Reference size

Features

- Item Summary
220 μ F \pm 20%, 25V, ϕ 8x10mm, SMD
- Lifecycle Stage
Mass Production (Preferred)
- AEC-Q200 qualified
- Standard packaging quantity (minimum)
Embossed taping 500 pcs

Products characteristics table

Operating Temp. Range	-55 to +135 °C
Rated Voltage	25 V
Rated Capacitance	220 μ F
Tolerance at rated capacitance	\pm 20 %
Leakage current (max)	55 μ A at 2 min
Tangent of loss angle (tan δ) (max)	0.14
ESR (max)	22 m Ω at 100kHz / 20 °C
Rated Ripple (max)	1600 mArms at 100kHz / 135 °C
Impedance ratio___[-25°C/+20°C]	1.5
Impedance ratio___[-55°C/+20°C]	2
Endurance (Applied ripple current) ___[Test time]	4000 hours at 135 °C
Endurance___[Leakage current]	The initial specified value or less
Endurance___[Capacitance change]	Within \pm 30% of initial value
Endurance___[tan δ change]	200% or less of the initial specified value
Endurance___[ESR change]	200% or less of the initial specified value
Shelf life___Test time	1000 hours at 135°C ; Other items are same as the endurance. However, the performance shall be after voltage application treatment (JIS C5101-4).
RoHS Compliance (10 subst.)	Yes
REACH Compliance (250 subst.)	Yes
Soldering	Reflow

External Dimensions

Dimension ϕD	$\phi 8 \pm 0.5$ mm
Dimension L	10 ± 0.5 mm
Dimension A	8.4 ± 0.2 mm
Dimension B	8.4 ± 0.2 mm
Dimension (C)	3 mm
Dimension (P)	3.1 mm
Dimension W	0.7 to 1.1 mm
Dimension M	0.4 ± 0.3 mm

2025.10.27

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
TAIYO YUDEN reserves the right to make change to the Data at any time without notice.
Before making final selection, please check product specification.