

ALUMINUM CAPACITORS

184 CPNS / 185 CPNZ / 186 CPNT

Conductive Polymer Aluminum Capacitors SMD (Chip), Low Impedance



KEY BENEFITS

- High temperature range: up to 125 °C
- Soldering heat resistant up to 250 °C peak temperature
- Very low ESR: down to 0.009 Ω (at 20 °C, 100 kHz)
- Highest ripple currents up to 5600 mA (at 105 °C, 100 kHz)
- Very long useful life: up to 2000 h at 125 °C, or 2 000 000 h at 65 °C

APPLICATIONS

- Automotive applications
- High performance applications in telecommunications and IT
- Industrial applications: motion control, SMPS, automation systems, equipment for renewable energy
- Applications where very low impedances are required
- Efficient portable or mobile equipment

RESOURCES

- Datasheet: 184 CPNS - www.vishay.com/doc?28437
- Datasheet: 185 CPNZ - www.vishay.com/doc?28436
- Datasheet: 186 CPNT - www.vishay.com/doc?28435
- For technical questions, contact aluminumcaps1@vishay.com
- Material categorization: for definitions of compliance, please see to www.vishay.com/doc?99912



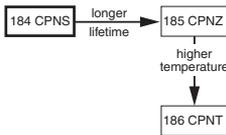
RoHS
COMPLIANT

A WORLD OF
SOLUTIONS™

ALUMINUM CAPACITORS

184 CPNS / 185 CPNZ / 186 CPNT

184 CPNS

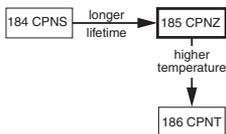


FEATURES

- Useful life: up to 2000 h at 10.
- Very low ESR and high ripple current
- High voltages up to 100 V
- SMD-version with base plate, lead (Pb)-free solderable
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

| QUICK REFERENCE DATA | |
|---|---------------------------------------|
| DESCRIPTION | VALUE |
| Nominal case sizes (L x W x H in mm) | 4.0 x 4.0 x 5.5 to 10.0 x 10.0 x 12.4 |
| Rated capacitance range, C _R | 4.7 μF to 3300 μF |
| Tolerance on C _R | ± 20 % |
| Rated voltage range, U _R | 2.5 V to 100 V |
| Category temperature range | -55 °C to +105 °C |
| Endurance test at 105 °C | 2000 h |
| Useful life at 105 °C | 2000 h |
| Shelf life at 0 V, 105 °C | 1000 h |
| Based on sectional specification | IEC 60384-25 / CECC 32300 |
| Climatic category IEC 60068 | 55 / 105 / 56 |

185 CPNZ

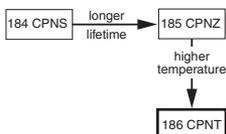


FEATURES

- Extended useful life: up to 5000 h at 105 °C
- Very low ESR and high ripple current
- Voltages up to 50 V
- SMD-version with base plate, lead (Pb)-free reflow solderable
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

| QUICK REFERENCE DATA | |
|---|---------------------------------------|
| DESCRIPTION | VALUE |
| Nominal case sizes (L x W x H in mm) | 6.3 x 6.3 x 5.8 to 10.0 x 10.0 x 12.4 |
| Rated capacitance range, C _R | 10 μF to 1500 μF |
| Tolerance on C _R | ± 20 % |
| Rated voltage range, U _R | 6.3 V to 50 V |
| Category temperature range | -55 °C to +105 °C |
| Endurance test at 105 °C | 5000 h |
| Useful life at 105 °C | 5000 h |
| Shelf life at 0 V, 105 °C | 1000 h |
| Based on sectional specification | IEC 60384-25 / CECC 32300 |
| Climatic category IEC 60068 | 55 / 105 / 56 |

186 CPNT



FEATURES

- Useful life: up to 2000 h at 125 °C
- Very low ESR and high ripple current
- Voltages up to 50 V
- SMD-version with base plate, lead (Pb)-free reflow solderable
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

| QUICK REFERENCE DATA | |
|---|---------------------------------------|
| DESCRIPTION | VALUE |
| Nominal case sizes (L x W x H in mm) | 6.3 x 6.3 x 5.8 to 10.0 x 10.0 x 12.4 |
| Rated capacitance range, C _R | 10 μF to 1500 μF |
| Tolerance on C _R | ± 20 % |
| Rated voltage range, U _R | 6.3 V to 50 V |
| Category temperature range | -55 °C to +125 °C |
| Endurance test at 125 °C | 2000 h |
| Useful life at 125 °C | 2000 h |
| Shelf life at 0 V, 125 °C | 1000 h |
| Based on sectional specification | IEC 60384-25 / CECC 32300 |
| Climatic category IEC 60068 | 55 / 125 / 56 |

Revision 22-Sep-17