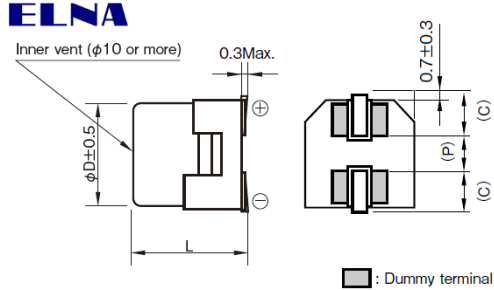


# Spec Sheet

FOR AUTOMOTIVE VERTICAL CHIP TYPE ALUMINUM ELECTROLYTIC CAPACITORS[RTD]

## RTD-80V471MKMTQ-R5



Unit : mm

### ■ Features

- Item Summary  
470 $\mu$ F $\pm$ 20%, 80V,  $\phi$  18x21.5mm, SMD
- Lifecycle Stage  
Mass Production (Preferred)
- AEC-Q200 qualified
- Standard packaging quantity (minimum)  
75

### ■ Products characteristics table

|  |  |
|--|--|
| Capacitance  | 470 $\mu$ F $\pm$ 20 %                     |
| Rated Voltage  | 80 V                                       |
| tan $\delta$ (max)   | 0.08                                       |
| Operating Temp. Range                                      | -55 to +105 $^{\circ}$ C                   |
| Leakage current (min)                                      | 376 $\mu$ A at 2 min                       |
| Rated Ripple (max)   | 1000 mArms at 100k Hz / 105 $^{\circ}$ C   |
| Impedance ratio<br>___ [-25 $^{\circ}$ C/+20 $^{\circ}$ C] | 2  |
| Impedance ratio<br>___ [-40 $^{\circ}$ C/+20 $^{\circ}$ C] | 3  |
| Impedance ratio<br>___ [-55 $^{\circ}$ C/+20 $^{\circ}$ C] | 3  |
| ESR (max)  | 0.11 $\Omega$ at 100k Hz / 20 $^{\circ}$ C |
| Endurance<br>___ [Test time]                               | 5000 hr at 105 $^{\circ}$ C                |
| Endurance<br>___ [Capacitance change]                      | Within $\pm$ 30% of initial value          |
| Endurance<br>___ [tan $\delta$ change]                     | 300% or less of initial specified value    |
| Shape  | Vertical Chip<br>for Vibration (SMD)       |
| Type   | Low Impedance, high ripple current         |
| RoHS Compliance (10 subst.)                                | Yes  |
| REACH Compliance (209 subst.)                              | Yes  |
| Soldering  | Reflow                                     |
| LeadForming/Taping   | Taping Embossed                            |

### ■ External Dimensions

|                    |                        |
|--------------------|------------------------|
| Dimension $\phi$ D | $\phi$ 18 $\pm$ 0.5 mm |
| Dimension L        | 21.5 $\pm$ 0.5 mm      |
| Dimension P (F)    | Typ 7.2 mm             |
| Dimension C (d)    | Typ 6.6 mm             |

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.

2021.07.01

Please read this notice before using the ELNA products.



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