

Engineering Bulletin



◆ Features

- Enhanced performance under adverse environmental conditions.
- Updated Bill of Materials compared to earlier 2.5V DKA products resulting in improved performance at higher voltage.
- Environment-friendly

DLCAP™

◆ Product Specifications

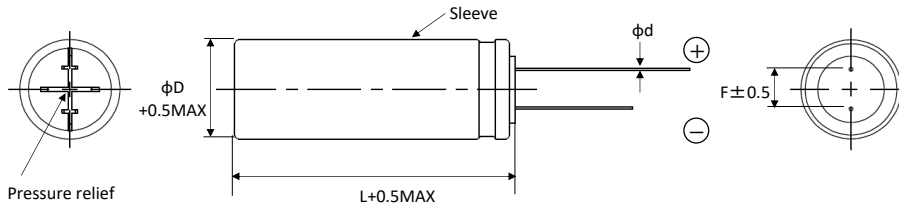
					Note	
					Sleeve	
					Non Sleeve	
	DDKG2R7ELL500KM40S	DDKG2R7ELL500KM50S	DDKG2R7ELL720KM50S	-		
	DDKG2R7ELL500KM40U	DDKG2R7ELL500KM50U	DDKG2R7ELL720KM50U	DDKG2R7ELL111KM70U		
ELECTRICAL	Rated Capacitance	50 F	50 F	72 F	110 F	
	Tolerance	±10%	±10%	±10%	±10%	
	ESR _{DC} (Initial/Typical)	20.0 mΩ	14.0 mΩ	16.0 mΩ	11.0 mΩ	@20°C
	ESR _{DC} (Initial/Maximum)	24.0 mΩ	16.8 mΩ	19.2 mΩ	13.2 mΩ	@20°C
	Rated Voltage	2.7 V	2.7 V	2.7 V	2.7 V	@65°C
Maximum Peak Current, 1 sec. (non repetitive)	31 A	37 A	41 A	61 A	The peak current to reach the rated voltage/2 at 1 sec.	
TEMPERATURE	Operating Temperature Range (inside)					
	Minimum					-40 °C
	Maximum					65 °C
	Storage temperature range (Uncharged)					@2.7V
	Minimum					-40 °C
Maximum					85 °C	
PHYSICAL	Mass, typical	14 g	18 g	18 g	25 g	
	Terminals	Lead	Lead	Lead	Lead	
LIFE	65 °C at the rated voltage	1,500 hours	2,000 hours	1,000 hours	1,000 hours	
	Capacitance change	30%	30%	30%	30%	Degradation(%) from the initial measured value
	ESR Change	100%	100%	100%	100%	Increase(%) from maximum initial value
	70 °C at 2.5V	1,500 hours	2,000 hours	1,000 hours	1,000 hours	
	Capacitance Change	30%	30%	30%	30%	Degradation(%) from the initial measured value
	ESR Change	100%	100%	100%	100%	Increase(%) from maximum initial value
POWER & ENERGY	Usable Specific Power, P _{d, Typical}	2604 W/kg	2893 W/kg	2531 W/kg	2651 W/kg	P _d =0.12V ² /ESR _{DC} ·mass
	Impedance Match Specific Power, P _{max, Typical}	5424 W/kg	6027 W/kg	5273 W/kg	5523 W/kg	P _{max} =V ² /4·ESR _{DC} ·mass
	Specific Energy, E _{max, Typical}	3.6 Wh/kg	2.8 Wh/kg	4.1 Wh/kg	4.5 Wh/kg	E=(1/2CV ²)/3600·mass
	Stored Energy, Typical	0.05 Wh	0.05 Wh	0.07 Wh	0.11 Wh	E=(1/2CV ²)/3600

Please consult us for sample and mass production schedule.
The specifications are subject to change without notice.

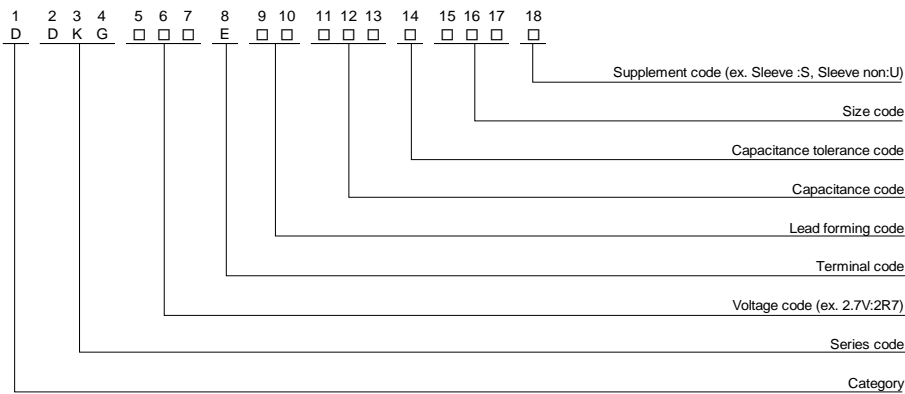
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DIMENSIONS		DDKG2R7ELL500KM40S	DDKG2R7ELL500KM50S	DDKG2R7ELL720KM50S	-
		DDKG2R7ELL500KM40U	DDKG2R7ELL500KM50U	DDKG2R7ELL720KM50U	DDKG2R7ELL111KM70U
ΦD (mm)		18	18	18	18
L (mm)		40	50	50	70
F (mm)		7.5	7.5	7.5	10.0
Φd (mm)		0.8	0.8	0.8	0.8

◆ Dimensions



◆ PART NUMBERING SYSTEM



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