

ULG Series

+105°C, High Ripple Current, Super Low ESR

Features

- High Ripple Current, Super Low ESR
- Wide Temperature Range
- RoHS Compliant



Applications

- Suitable for DC-DC Converters, Voltage Regulators, Decoupling Applications for Computer Motherboards, etc.

SPECIFICATIONS

Item	Performance Characteristics				
Operating Temperature Range	-55 to +105°C				
Rated Working Voltage Range	2.5VDC to 35VDC				
Surge Voltage, SV	SV=WVx1.15 VDC (Normal temperature)				
Nominal Capacitance Range	22 to 1500μF (120Hz, +20°C)				
Capacitance Tolerance	±20% (120Hz, +20°C)				
tanδ	0.12 (120Hz, +20°C)				
Leakage Current, Lc	I ≤ 0.2CV or 280(μA) whichever is greater measured, after 2 minutes application of rated working voltage at +20°C				
Temperature Characteristics, Impedance Ratio	At -55°C 100kHz (Low temperature)			Z/Z _{20°C} ≤ 1.25	
	At +105°C 100kHz (High temperature)			Z/Z _{20°C} ≤ 1.25	
Frequency Coefficient for Allowable Ripple Current	Frequency Coefficient	120Hz ≤ f < 1kHz	1kHz ≤ f < 10kHz	10kHz ≤ f < 100kHz	100kHz ≤ f < 500kHz
		0.05	0.30	0.70	1.00
Endurance	Test conditions +105°C, 2000 hours Rated voltage applied	ΔC/C	Within ±20% of initial measured value		
		tanδ	≤ 150% of initial specified value		
		ESR	≤ 150% of initial specified value		
		Lc	≤ Initial specified value		
Damp Heat Test (Steady State)	Test conditions +60°C, 90% to 95% RH 1000 hours No applied voltage	ΔC/C	Within ±20% of initial measured value		
		tanδ	≤ 150% of initial specified value		
		ESR	≤ 150% of initial specified value		
		Lc	≤ Initial specified value		
Surge Voltage Test	At normal temperature, charge at surge voltage for 30 sec. and discharge via a 1kΩ protective resistor for 330 sec. Repeat for 1000 cycles.	ΔC/C	Within ±20% of initial measured value		
		tanδ	≤ 150% of initial specified value		
		ESR	≤ 150% of initial specified value		
		Lc	≤ Initial specified value		
Others	JIS-C-5101-4				

DIMENSIONS

