

RDE High Capacitance,
Load life of 5000 hours at 105°C



FPCAP **NEW**



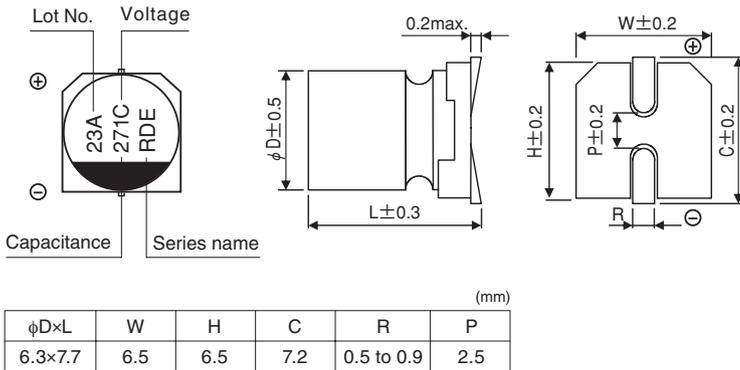
- Low ESR, High ripple current.
- Load life of 5000 hours at 105°C.
- SMD type : Lead free reflow soldering condition at 260°C peak correspondence.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

■ Specifications

Item	Performance Characteristics	
Category Temperature Range	-55 to +105°C	
Rated Voltage Range	2.5 to 16V	
Rated Capacitance Range	270 to 820μF	
Capacitance Tolerance	±20% at 120Hz, 20°C	
Tangent of loss angle (tan δ)	Less than or equal to the specified value at 120Hz, 20°C	
ESR (※ 1)	Less than or equal to the specified value at 100kHz, 20°C	
Leakage Current (※ 2)	Less than or equal to the specified value. After 2 minutes' application of rated voltage at 20°C	
Endurance	Test condition	105°C, rated voltage, 5000Hrs
	Capacitance change	Within ±20% of initial value before test
	tan δ	150% or less than the initial specified value
	ESR (※ 1)	150% or less than the initial specified value
	Leakage current (※ 2)	Less than or equal to the specified value

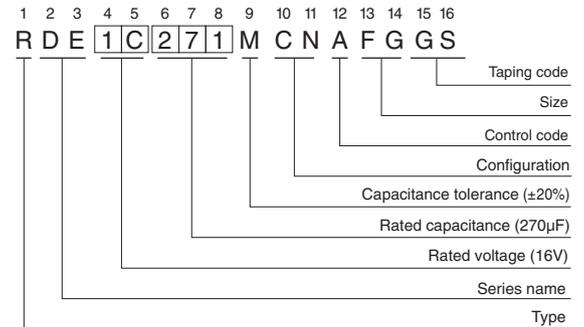
※ 1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform.
 ※ 2 Conditioning : If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.

■ Dimensions



Type numbering system (Example : 16V 270μF)

Nichicon part number



● Frequency coefficient of rated ripple current

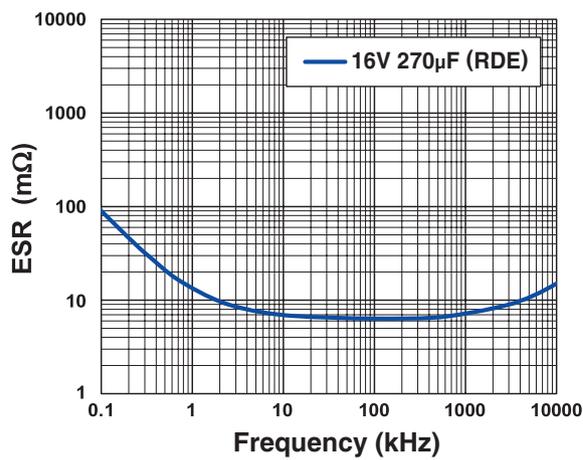
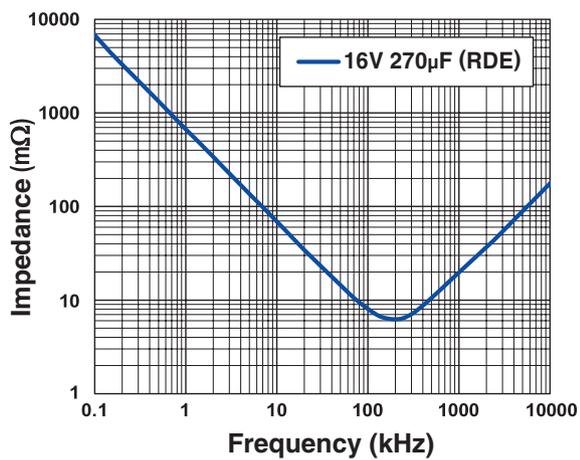
Frequency	120 Hz	1 kHz	10 kHz	100 kHz	300 kHz or more
Coefficient	0.10	0.45	0.50	1.00	1.00

RDE

■ Dimensions

Rated Voltage (V) (code)	Surge Voltage (V)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 2 minutes)	ESR (mΩ) (20°C /100kHz)	Rated Ripple Current (mArms) (105°C /100kHz)	NICHICON
2.5 (0E)	2.8	820	6.3×7.7	0.12	700	7	5000	RDE0E821MCNAFGGS
6.3 (0J)	7.2	560	6.3×7.7	0.12	1058	8	5000	RDE0J561MCNAFGGS
16 (1C)	18.4	270	6.3×7.7	0.12	864	10	5080	RDE1C271MCNAFGGS

■ Frequency Characteristics (The frequency characteristics are typical and not a guaranteed value.)



• For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.