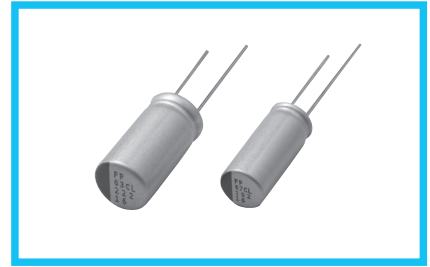


RNL Large Sized, High Capacitance



FPCAP



- Low ESR, High Capacitance, High ripple current.
- Large Sized.
- Load life of 2000 hours at 105°C.
- Radial lead type : Lead free flow soldering condition correspondence.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).



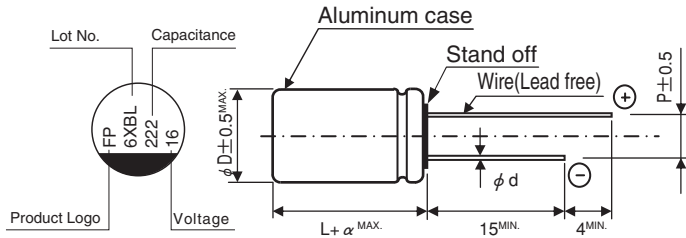
■ Specifications

Item	Performance Characteristics	
Category Temperature Range	-55 to +105°C	
Rated Voltage Range	16V	
Rated Capacitance Range	680 to 2200μF	
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 2000 / 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 initial specified value

※1 ESR should be measured at both of the terminal ends closest to the capacitor body.

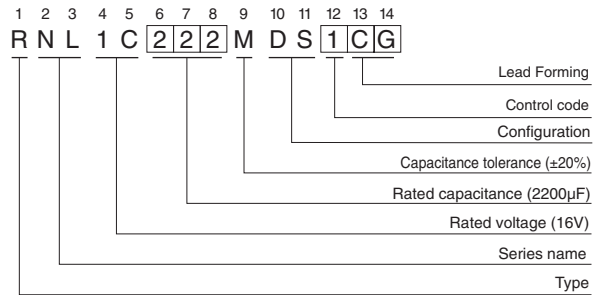
※2 Conditioning : If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.

■ Dimensions

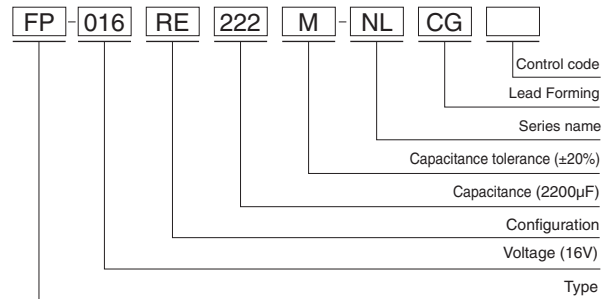


φD×L	φd	P	α
φ8×16L	0.6	3.5	1.5
φ8×20L	0.6	3.5	1.5
φ10×20L	0.6	5.0	1.5

Type numbering system (Example : 16V 2200μF)
Nichicon part number



FPCAP part number



● Frequency coefficient of rated ripple current

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

● Dimension table in next page.

RNL

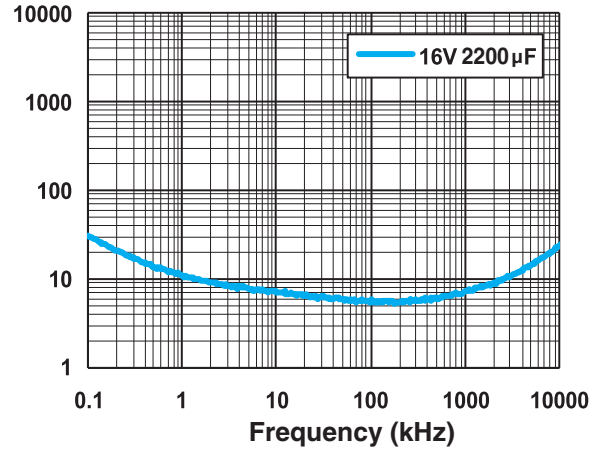
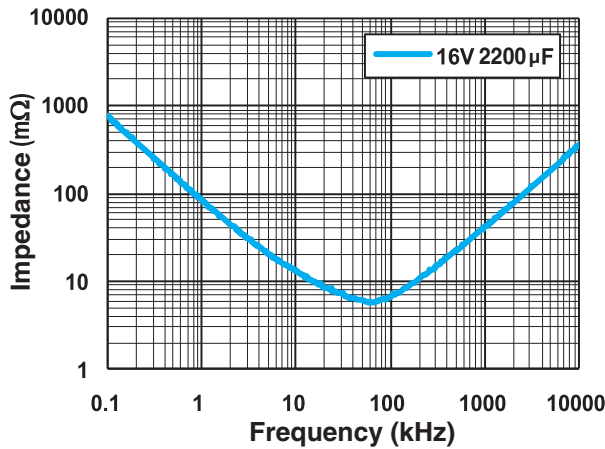
■ Dimensions

Rated Voltage (V)	Surge Voltage (V)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA, 2min.)	ESR (mΩ) (20°C/100kHz)	Rated Ripple Current (mA _{rms}) (105°C/100kHz)	NICHICON	FPCAP
16 (1C)	18.4	680	8×16	0.12	1088	8	7000	RNL1C681MDS1□□	FP-016RE681M-NL□□
		820	▲8×16	0.12	1312	8	7000	RNL1C821MDS6□□	FP-016RE821M-NL□□-DS
		820	8×20	0.12	1312	8	7500	RNL1C821MDS1□□	FP-016RE821M-NL□□
		*820	8×20	0.12	1312	8	7500	RNL1C821MDSASQ□□	FP-016RE821M-NL□□-5K
		1000	8×20	0.12	1600	8	7500	RNL1C102MDS1□□	FP-016RE102M-NL□□
		*1000	8×20	0.12	1600	8	7500	RNL1C102MDSASQ□□	FP-016RE102M-NL□□-5K
		1200	8×20	0.12	1920	8	7500	RNL1C122MDS1□□	FP-016RE122M-NL□□
		*1200	8×20	0.12	1920	8	7500	RNL1C122MDSASQ□□	FP-016RE122M-NL□□-5K
		1500	▲8×20	0.12	2400	8	7500	RNL1C152MDS6□□	FP-016RE152M-NL□□-DS
		1500	10×20	0.12	2400	8	8100	RNL1C152MDS1□□	FP-016RE152M-NL□□
		*1500	10×20	0.12	2400	8	8100	RNL1C152MDSASQ□□	FP-016RE152M-NL□□-5K
		1800	10×20	0.12	2880	8	8100	RNL1C182MDS1□□	FP-016RE182M-NL□□
		*1800	10×20	0.12	2880	8	8100	RNL1C182MDSASQ□□	FP-016RE182M-NL□□-5K
		2200	10×20	0.12	3520	8	8100	RNL1C222MDS1□□	FP-016RE222M-NL□□
*2200	10×20	0.12	3520	8	8100	RNL1C222MDSASQ□□	FP-016RE222M-NL□□-5K		

* : Load life 5000hours.

"▲" In this case, [6] will be put at 12th digit of type numbering system.

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



- Taping specifications are given in page 26, 27.
- Please refer to page 3 for the minimum order quantity.

Mouser Electronics

Authorized Distributor

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[RNL1C152MDS1](#) [RNL1C122MDS1](#) [RNL1C102MDS1KX](#) [RNL1C182MDS1PH](#) [RNL1C821MDS1](#) [RNL1C182MDS1](#)
[RNL1C122MDS1PX](#) [RNL1C222MDS1](#) [RNL1C821MDS1PX](#) [RNL1C222MDS1PH](#) [RNL1C821MDS6](#) [RNL1C681MDS1](#)
[RNL1C821MDS6KX](#) [RNL1C821MDS6PX](#) [RNL1C681MDS1PX](#) [RNL1C681MDS1KX](#)