

# FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

## S6 series

Low ESR

Low Profile

Large Capacitance

Lead-free

RoHS Compliance

### ● Features

By using Functional Polymer cathode, Frequency & Temp. characteristics are greatly improved.

- Low ESR at a high frequency range.
- High ripple current capability.
- Long life and high reliability.

### ● Applications

- Switching Power Supply and DC/DC Converter.
- Buck up Power Supplies of CPU (VRM etc.)
- Miniature high Power Supply.

### ● Environmental Correspondence

Any environmental hazardous substances are not used.

- The lead free of terminal plating (Sn 100%)

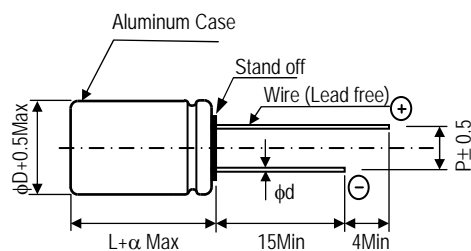
### ● Specifications

Items		Characteristics
		<b>S6</b>
Operating Temp. Range		-55 to +105°C
Rated Voltage Range		2.5 to 25 V <sub>dc</sub>
Capacitance Range		33 to 560 μF
Capacitance Tolerance		±20% (M)
Endurance	Condition	105°C 2000Hrs at rated voltage
	Capacitance	Within ±20% of the value before test
	Leakage Current	Not to exceed the value specified
	tan δ	Not to exceed 150% of the value specified
Failure Rate		0.1% / 1000Hrs. Max (60%CL)

### ● Size List

		[φD×L]			
R.V (S.V.) Cap. [μF]	[V]	2.5 (2.8)	10 (11.5)	16 (18.4)	25 (28.7)
33					6.3×5
100				6.3×6	
150			6.3×5		
560	6.3×5				

### ● Dimensions



[Unit : mm]

φD×L	φd	P	α
6.3×5	0.5	2.5	1.0
6.3×6	0.45	2.5	1.0

NEW

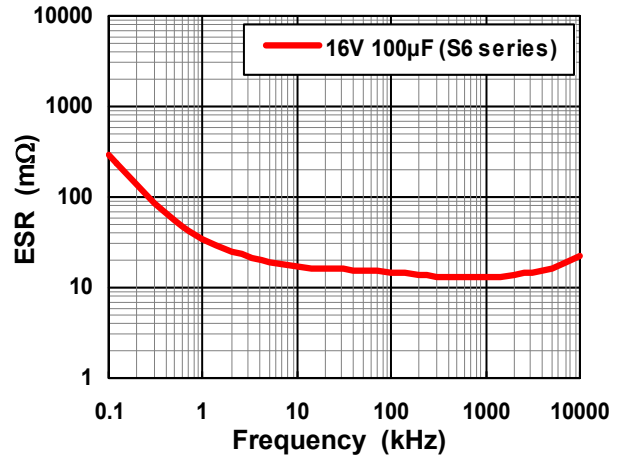
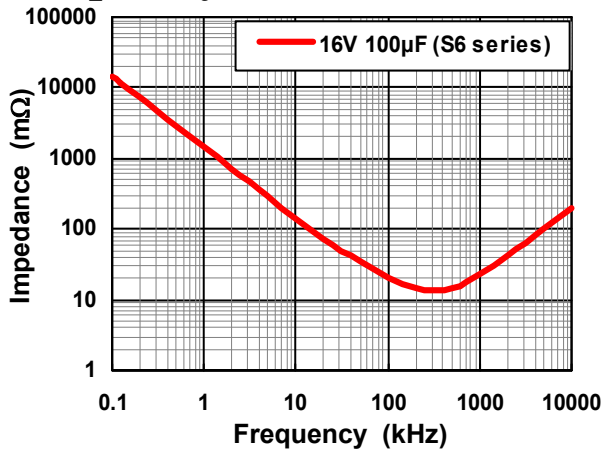


## ● Part number & Specifications

Rated Voltage (V)	Rated Capacitance (μF, 120Hz)	Part Number		Leakage Current * (μA, 2 min)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size φD×L(mm)
		NICHICON	FPCAP					
2.5	560	RS60E561MDN1□□	FP-2R5RE561M-S6□□	700	0.12	13	3600	6.3 × 5
10	150	RS61A151MDN1□□	FP-010RE151M-S6□□	450	0.10	25	2500	6.3 × 5
16	100	RS61C101MDS1□□	FP-016RE101M-S6□□	500	0.10	24	2490	6.3 × 6
25	33	RS61E330MDN1□□	FP-025RE330M-S6□□	165	0.10	60	1700	6.3 × 5

\* In case of some doubt about measured values, measure after applying rated voltage for 120 minutes at 105°C.

## ● Frequency Characteristics



## ● Part Number (EX) 16V, 100μF Nichicon P/N

<b>R</b>	<b>S6</b>	<b>1C</b>	<b>101</b>	<b>M</b>	<b>DS</b>	<b>1</b>	
Type	Series name	Rated Voltage	Rated Capacitance	Capacitance Tolerance	Configuration	Control code	Lead Forming

( CG: Cut lead (Bulk)  
JT : φ6.3x5/6, 2.5mm pitch taping  
PX : φ6.3 5.0mm pitch taping )

### FPCAP P/N

<b>FP</b>	<b>016</b>	<b>RE</b>	<b>101</b>	<b>M</b>	<b>S6</b>	<b>R</b>	
Commodity Mark	Rated Voltage	Classification	Rated Capacitance	Capacitance Tolerance	Series name	Lead Forming	Control code

( R: Long lead (Bulk)  
CG: Cut lead (Bulk)  
JT : φ6.3x5/6, 2.5mm pitch taping  
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