

FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

S6 series

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.
- Back up Power Supplies of CPU (VRM etc.)
- Miniature high Power Supply.

Environmental Correspondence

Corresponding to Lead-free, RoHS compliance and Halogen-free.

- The Lead-free of terminal plating (Sn)

Specifications

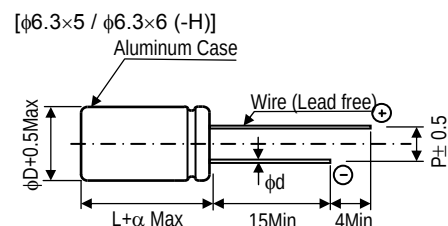
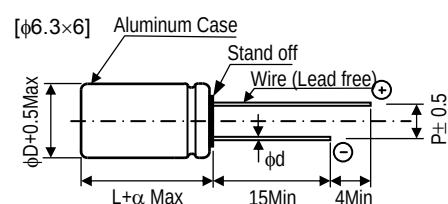
Items		Characteristics
		S6
Operating Temp. Range		-55 to +105°C
Rated Voltage Range		2.5 to 25 V _{DC}
Capacitance Range		33 to 560 μ F
Capacitance Tolerance		$\pm 20\%$ (M)
Endurance	Condition	105°C 2000Hrs at rated voltage
	Capacitance	Within $\pm 20\%$ of the value before test
	Leakage Current	Not to exceed the value specified
	$\tan \delta$	Not to exceed 150% of the value specified
Failure Rate		0.1% / 1000Hrs. Max (60%CL)

Size List

[ϕ D $\times$ L]

R.V (S.V.) [M]	2.5 (2.8)	10 (11.5)	16 (18.4)	25 (28.7)
Cap. [μ F]				
33				6.3 $\times$ 5
100			6.3 $\times$ 6	
150		6.3 $\times$ 5		
560	6.3 $\times$ 5			

Dimensions



[Unit : mm]

ϕ D $\times$ L	ϕ d	P	α
6.3 $\times$ 5	0.5	2.5	1.0
6.3 $\times$ 6	0.45	2.5	1.0

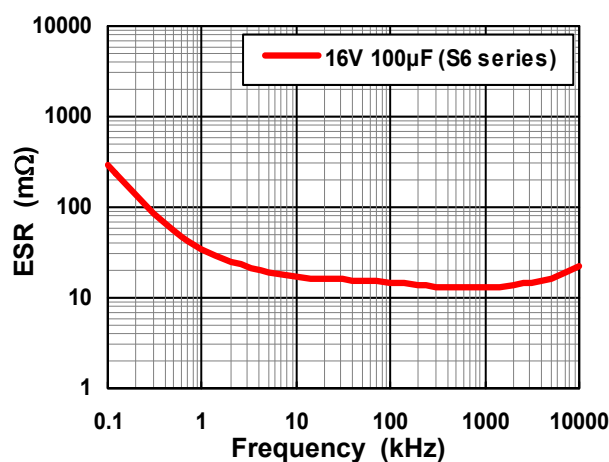
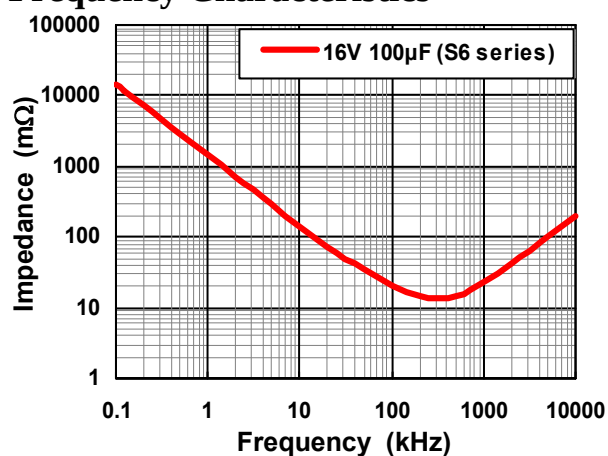


Part number & Specifications

Rated Voltage (V)	Rated Capacitance (μ F, 120Hz)	Part Number		Leakage Current * (μ A, 2 min)	$\tan\delta$ (120Hz)	ESR (m Ω , 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size $\phi D \times L$ (mm)
		NICHICON	FPCAP					
2.5	560	RS60E561MCN1□□	FP-2R5RE561M-S6□□	700	0.12	13	3600	6.3 × 5
10	150	RS61A151MCN1□□	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
	100	RS61C101MCS1□□	FP-016RE101M-S6□□-H	500	0.10	24	2490	6.3 × 6
25	33	RS61E330MCN1□□	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, 100 μ F Flat rubber Type (-H)

Nichicon P/N

R	S6	1C	101	M	CS	1	
Type	Series Name	Rated Voltage	Rated Capacitance	Capacitance Tolerance	Configuration	Control Code	Lead Forming

CG: Cut lead (Bulk)
JT: $\phi 6.3 \times 5/6$, 2.5mm pitch taping
PX: $\phi 6.3$ 5.0mm pitch taping

FPCAP P/N

FP	016	RE	101	M	S6	R	-H
Commodity Mark	Rated Voltage	Classification	Rated Capacitance	Capacitance Tolerance	Series Name	Lead Forming	Control Code

R: Long lead (Bulk)
CG: Cut lead (Bulk)
JT: $\phi 6.3 \times 5/6$, 2.5mm pitch taping
P: $\phi 6.3$, 5.0mm pitch taping

-H: Flat rubber