

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.
- 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

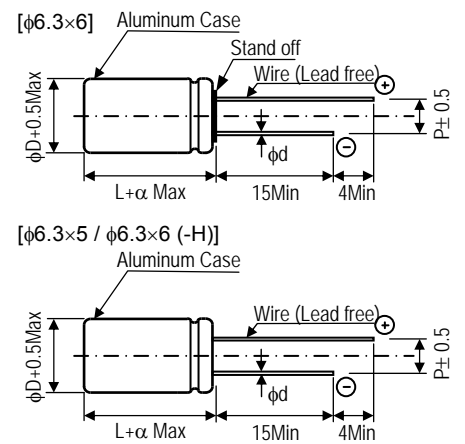
Items		Characteristics
		S6
Operating Temp. Range		-55 to +105°C
Rated Voltage Range		2.5 to 25 V-DC
Capacitance Range		33 to 560 µF
Capacitance Tolerance		±20% (M)
Endurance	Condition	105°C 2000Hrs at rated voltage
	Capacitance	Within ±20% of the value before test
	Leakage Current	Not to exceed the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

● Size List

[φD×L]

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

● Dimensions



[Unit : mm]

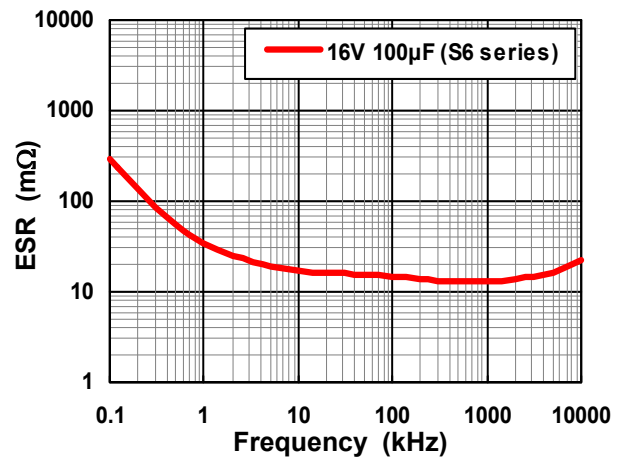
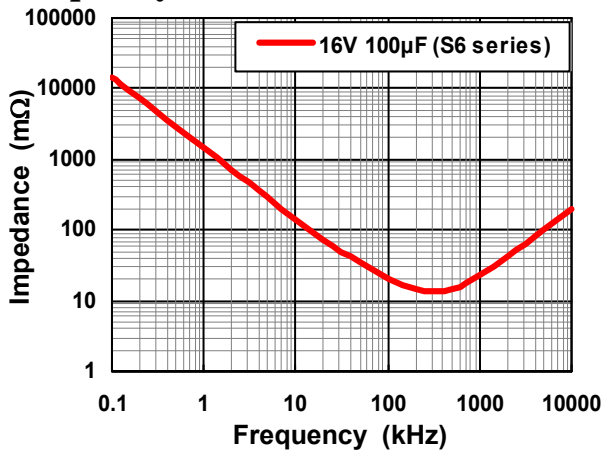
φD×L	φd	P	α
6.3×5	0.5	2.5	1.0
6.3×6	0.45	2.5	1.0

● 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	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

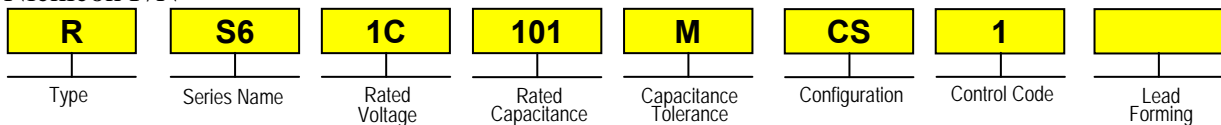
* In case of some doubt about measured values, measure after applying rated voltage for 120 minutes at 105°C.

● Frequency Characteristics



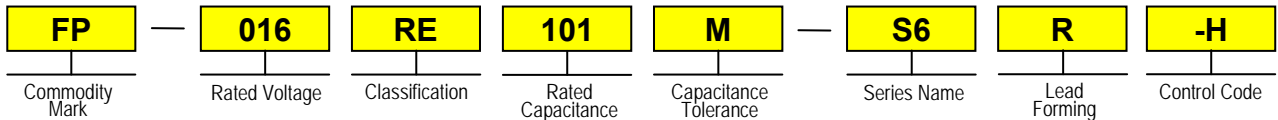
● Part Number (EX) 16V, 100μF Flat rubber Type (-H)

Nichicon P/N



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

FPCAP P/N



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

-H: Flat rubber