

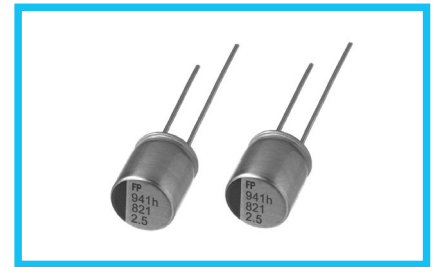
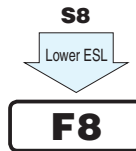
F8 series Low ESR / ESL, Low Profile (φ5)



FPCAP

Expanded

- Low ESR/ESL, High ripple current.
- Low Profile (Height 8mm).
- 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).



Specifications

Item	Performance Characteristics	
Category Temperature Range	-55 to +105°C	
Rated Voltage Range	2.5 to 6.3V	
Rated Capacitance Range	100 to 560μF	
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 2000Hrs.
	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

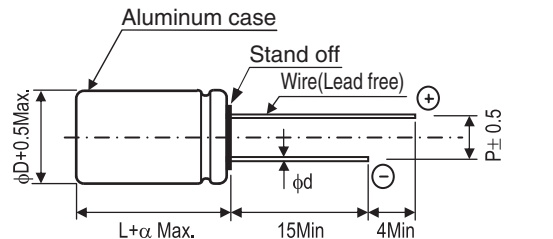
*1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform.

*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.

Size List

[φD×L(mm)]

Cap [μF]	R.V.(V)	2.5	4.0	6.3
	S.V.(V)	2.8	4.6	7.2
100	5×8			
270				5×8
330	5×8		5×8	5×8
470	5×8			
560	5×8			



φD×L	φd	P	α
5×8	0.6	2.0	1.0

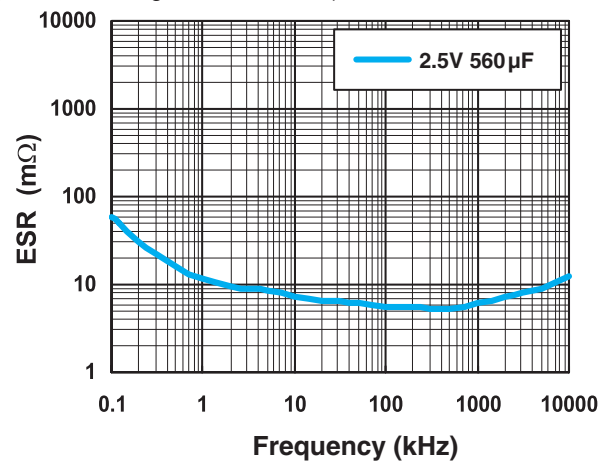
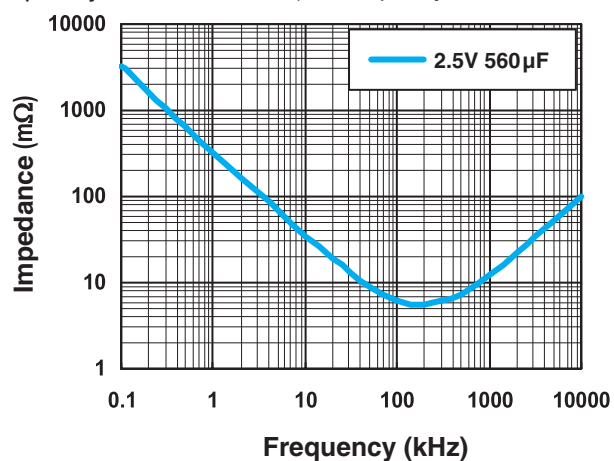
(mm)

F8 series

■ Standard Ratings

Rated Voltage (V) (code)	Surge Voltage (V)	Rated Capacitance (μ F)	Case Size ϕ D×L (mm)	$\tan \delta$	Leakage Current (μ A, 2min.)	ESR ($m\Omega$, 100kHz)	ESL (Typ.) (nH, 10MHz)	Rated Ripple Current (mA rms)	NICHICON	FPCAP
2.5 (0E)	2.8	100	5×8	0.10	500	7	1.5	4200	RF80E101MDN1□□	FP-2R5RE101M-F8□□
		330	5×8	0.10	500	7	1.5	4200	RF80E331MDN1□□	FP-2R5RE331M-F8□□
		470	5×8	0.10	500	7	1.5	4200	RF80E471MDN1□□	FP-2R5RE471M-F8□□
		560	5×8	0.10	500	7	1.5	4200	RF80E561MDN1□□	FP-2R5RE561M-F8□□
4.0 (0G)	4.6	330	5×8	0.10	500	8	1.5	4000	RF80G331MDN1□□	FP-4R0RE331M-F8□□
6.3 (0J)	7.2	270	5×8	0.10	500	11	1.5	3700	RF80J271MDN1□□	FP-6R3RE271M-F8□□
		330	5×8	0.10	500	11	1.5	3700	RF80J331MDN1□□	FP-6R3RE331M-F8□□

■ 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.