

HT High Temperature (125°C) series



FPCAP Expanded



HT

- Low ESR, High Capacitance, High ripple current.
- Load life of 1000 hours at 125°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 +125°C	
Rated Voltage Range	6.3 to 35V	
Rated Capacitance Range	100 to 820μF	
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	125°C, rated voltage 1000Hrs.
	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

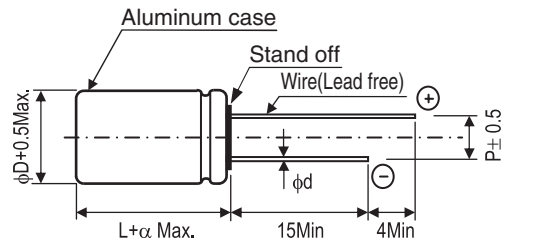
※1 ESR should be measured at both of the terminal ends closest to the capacitor body.

※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.

■ Size List

[φD×L(mm)]

Cap [μF]	R.V.(V)	6.3	10	16	20	35
	S.V.(V)	7.2	11.5	18.4	23.0	40.2
100						10×12.5
150					10×12.5	
220			8×11.5			
270				10×12.5		
330			8×11.5	10×12.5		
390			8×11.5			
560			10×12.5			
680	10×12.5					
820	10×12.5					



φD×L	φd	P	α
8×11.5	0.6	3.5	1.5
10×12.5	0.6	5.0	1.5

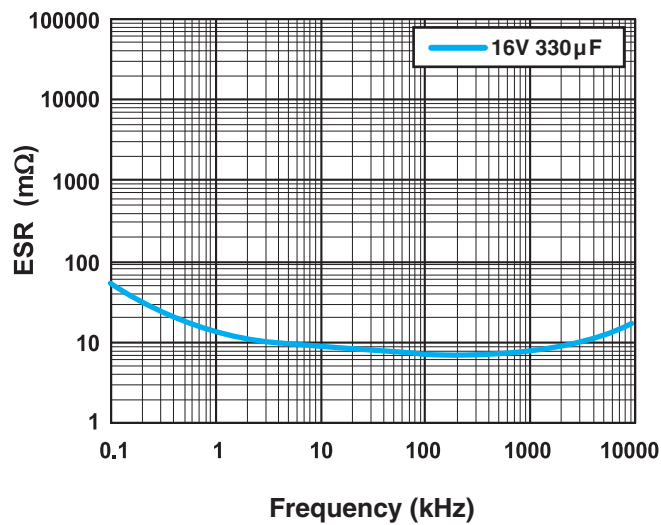
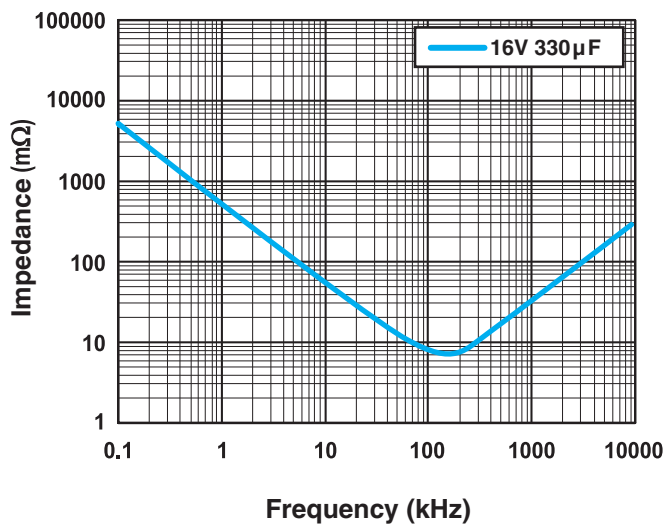
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■ Standard Ratings

Rated Voltage (V) (code)	Surge Voltage (V)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA, 2min.)	ESR (mΩ, 100kHz)	Rated Ripple Current (mArms)		NICHICON	FPCAP
							≤105°C *	105°C < ≤125°C *		
6.3 (0J)	7.2	680	10×12.5	0.12	857	12	5450	1740	RHT0J681MDN1□□	FP-6R3RE681M-HT□□
		820	10×12.5	0.12	1033	12	5450	1740	RHT0J821MDN1□□	FP-6R3RE821M-HT□□
10 (1A)	11.5	220	8×11.5	0.12	440	17	3950	1260	RHT1A221MDN1□□	FP-010RE221M-HT□□
		330	8×11.5	0.12	660	17	3950	1260	RHT1A331MDN1□□	FP-010RE331M-HT□□
		390	8×11.5	0.12	780	16	3950	1260	RHT1A391MDN1□□	FP-010RE391M-HT□□
		560	10×12.5	0.12	1120	13	5250	1680	RHT1A561MDN1□□	FP-010RE561M-HT□□
16 (1C)	18.4	270	10×12.5	0.12	864	16	4750	1520	RHT1C271MDN1□□	FP-016RE271M-HT□□
		330	10×12.5	0.12	1056	16	4750	1520	RHT1C331MDN1□□	FP-016RE331M-HT□□
20 (1D)	23.0	150	10×12.5	0.12	600	20	4350	1390	RHT1D151MDN1□□	FP-020RE151M-HT□□
35 (1V)	40.2	100	10×12.5	0.12	700	25	3250	1040	RHT1V101MDN1□□	FP-035RE101M-HT□□

* : At ambient temperature

■ 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.