FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

HT series

Low ESR | Guarantee 125ºC | 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.
- Guaranteed at 125 degrees 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

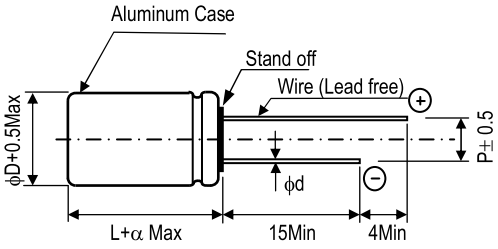
Items		Characteristics
		HT
Operating Temp. Range		- 55 to + 125°C
Rated Voltage Range		6.3 to 20V·DC
Capacitance Range		150 to 820µF
Capacitance Tolerance		± 20% (M)
Endurance	Condition	125°C 1000Hrs at rated voltage
	Capacitance	Within ± 20% of the value before test
	Leakage Current	Not to exceed the value specified
	tan δ	Not to exceed 150% of the value specified
Failure Rate		0.5% / 1000Hrs. Max (60%CL)

●Size List

[φD×L]

R.V (S.V.) [V] / Cap. [µF]	4.0 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)	20 (23)
150					10×12.5
220			8×11.5		
330			8×11.5	10×12.5	
560			10×12.5		
680		10×12.5			
820		10×12.5			

●Dimensions



[Unit : mm]

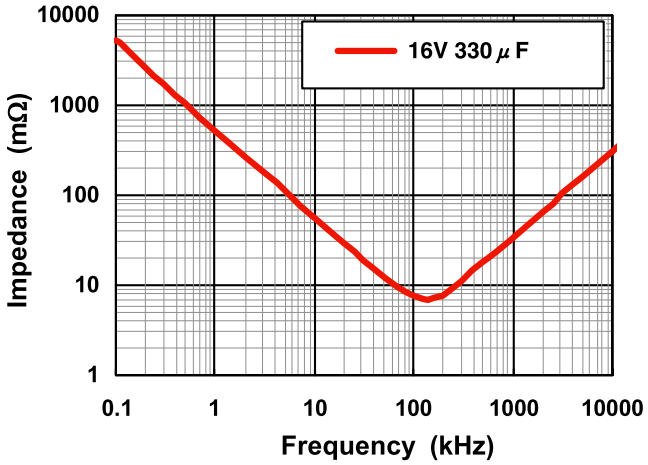
φD×L	φd	P	α
8×11.5	0.6	3.5	1.5
10×12.5	0.6	5.0	1.5

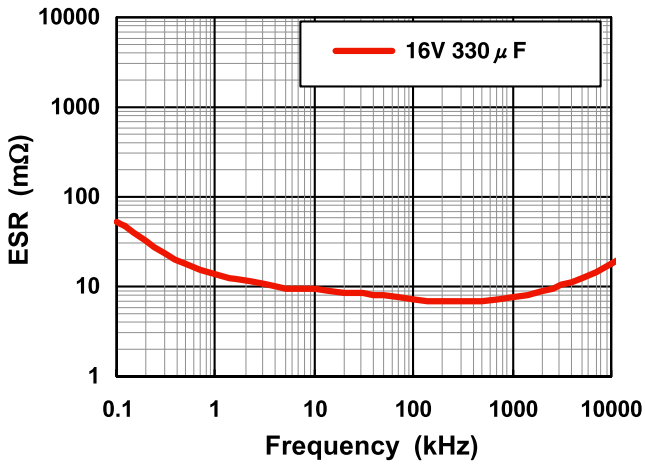
●Part number & Specifications

Rated Voltage (V)	Rated Capacitance (μF, 120Hz)	Part Number		Leakage Current *1 (μA, 2 min)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current		Case Size φD×L(mm)
		NICHICON	FPCAP				*2 105℃ or less	*2 105℃ to 125℃	
6.3	680	RHT0J681MDN1□□	FP-6R3RE681M-HT□□	857	0.12	12	5450	1740	10 x 12.5
	820	RHT0J821MDN1□□	FP-6R3RE821M-HT□□	1033	0.12	12	5450	1740	10 × 12.5
10	220	RHT1A221MDN1□□	FP-010RE221M-HT□□	440	0.12	17	3950	1260	8 × 11.5
	330	RHT1A331MDN1□□	FP-010RE331M-HT□□	660	0.12	17	3950	1260	8 × 11.5
	560	RHT1A561MDN1□□	FP-010RE561M-HT□□	1120	0.12	13	5250	1680	10 × 12.5
16	330	RHT1C331MDN1□□	FP-016RE331M-HT□□	1056	0.12	16	4750	1520	10 × 12.5
20	150	RHT1D151MDN1□□	FP-020RE151M-HT□□	600	0.12	20	4350	1390	10 × 12.5

*1: In case of some doubt about measured values, measure after applying rated voltage for 120 minutes at 105°C.
*2: At ambient temperature

●Frequency Characteristics





●Part Number (EX) 16V, 330μF

R	HT	1C	331	M	DN	1	
Type	Series name	Rated Voltage	Rated Capacitance	Capacitance Tolerance	Configuration	Control code	Lead Forming

CG: Cut lead (Bulk)
KX: φ8, 3.5mm pitch taping
PX: φ8, 5.0mm pitch taping
PH: φ10, 5.0mm pitch taping