

# FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

## HT series

### ● 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%)

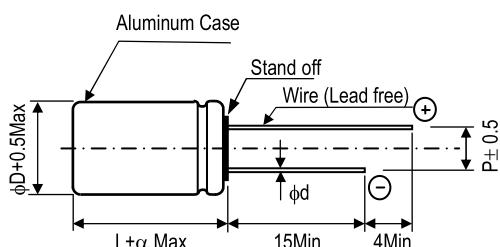
### ● Specifications

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
	$\tan \delta$	Not to exceed 150% of the value specified
Failure Rate	0.5% / 1000Hrs. Max (60%CL)	

### ● Size List

Cap. [μF]	[ϕD×L]				
	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

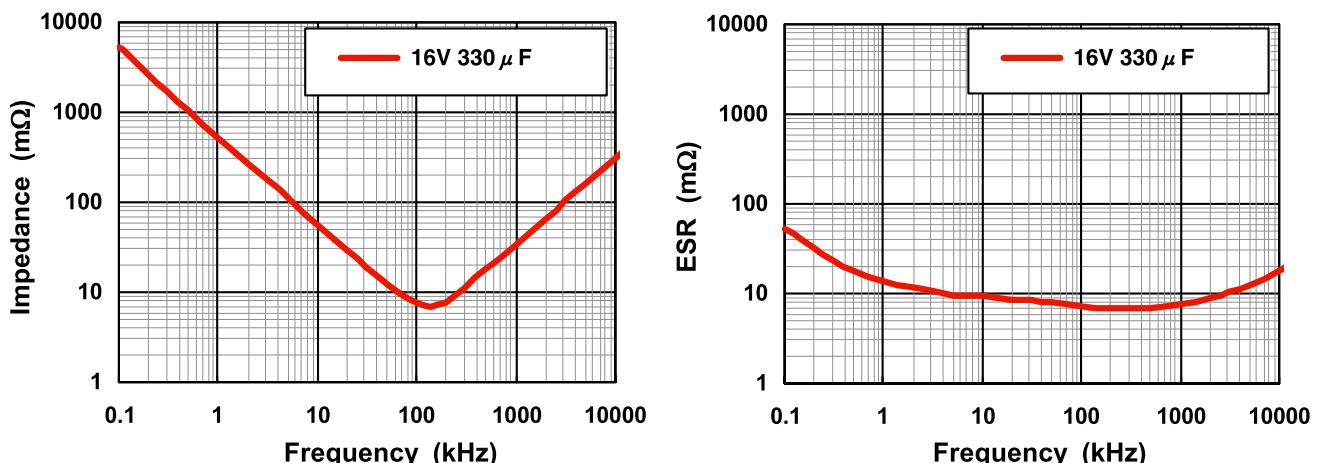
## ●Part number & Specifications

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

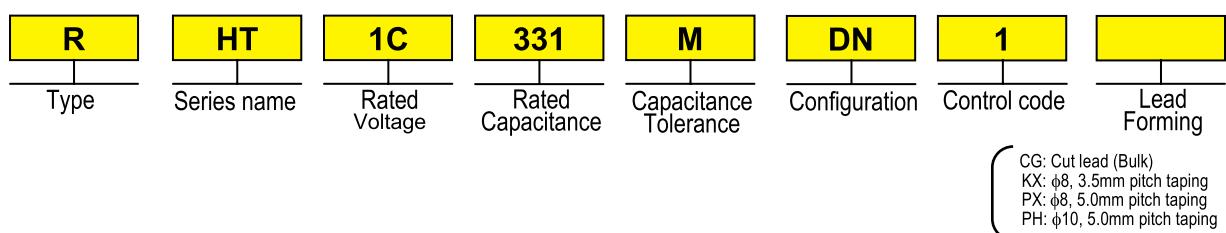
\*1: In case of some doubt about measured values, measure after applying rated voltage for 120 minutes at 105°C.

\*2: At ambient temperature

## ●Frequency Characteristics



## ●Part Number (EX) 16V, 330μF



# Mouser Electronics

Authorized Distributor

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Nichicon:

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