

FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

HT series

Low ESR

Guarantee
125°CLarge
Capacitance

Lead-free

RoHS
Compliance

UPGRADE



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.
- 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

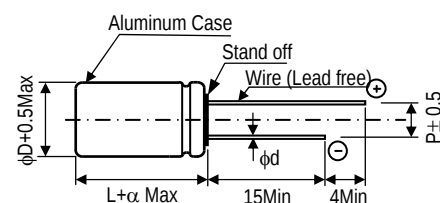
Items		Characteristics
		HT
Operating Temp. Range		- 55 to + 125°C
Rated Voltage Range		6.3 to 20V·DC
Capacitance Range		150 to 820µF
Capacitance Tolerance		± 20% (M)
Endurance	Condition	125°C 1000Hrs at rated voltage
	Capacitance	Within ± 20% of the value before test
	Leakage Current	Not to exceed the 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.) Cap. [µF]	6.3 (7.2)	10 (11.5)	16 (18.4)	20 (23)
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			

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

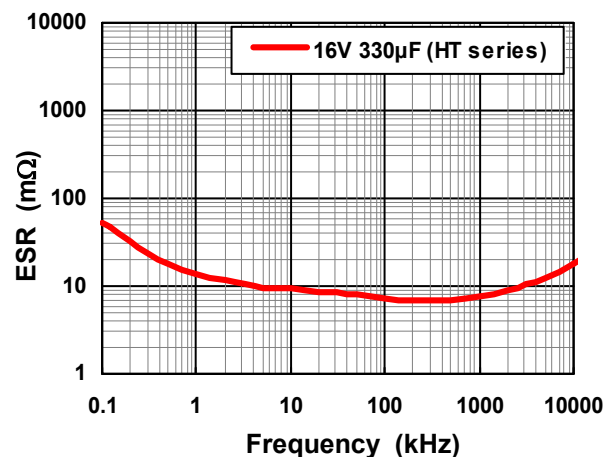
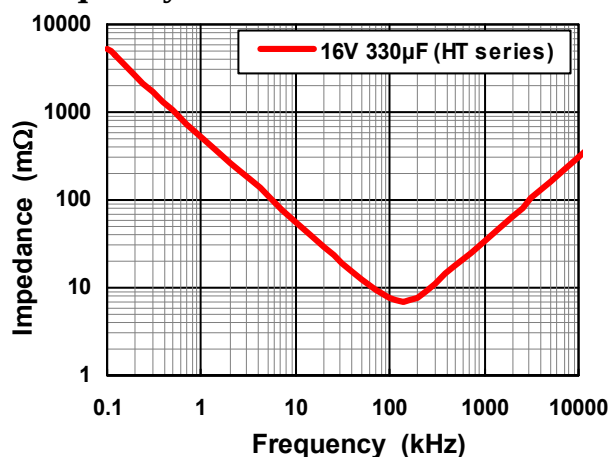
Part number & Specifications

Rated Voltage (V)	Rated Capacitance (μ F, 120Hz)	Part Number		Leakage Current *1 (μ A, 2 min)	$\tan\delta$ (120Hz)	ESR (m Ω , 100kHz)	Rated Ripple Current		Case Size ϕ D×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 × 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
	390	RHT1A391MDN1□□	FP-010RE391M-HT□□	780	0.12	16	3950	1260	8 × 11.5
	560	RHT1A561MDN1□□	FP-010RE561M-HT□□	1120	0.12	13	5250	1680	10 × 12.5
16	270	RHT1C271MDN1□□	FP-016RE271M-HT□□	864	0.12	16	4750	1520	10 × 12.5
	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, 330 μ F

Nichicon P/N

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: ϕ 8, 3.5mm pitch taping
PX: ϕ 8, 5.0mm pitch taping
PH: ϕ 10, 5.0mm pitch taping

FPCAP P/N

FP	016	RE	331	M	HT	R	
Commodity Mark	Rated Voltage	Classification	Rated Capacitance	Capacitance Tolerance	Series Name	Lead Forming	Control Code

R: Long lead (Bulk)
CG: Cut lead (Bulk)
K : ϕ 8, 3.5mm pitch taping
P : ϕ 8, 5.0mm pitch taping
PH: ϕ 10, 5.0mm pitch taping