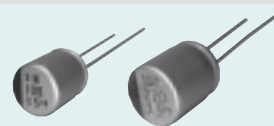


Hybrid Conductive Polymer Type / Radial Lead Type

RoHS compliance

HEH Series

Super Low ESR
High Voltage, Long Life



NEW

- 105°C, 10,000hrs. ● Laminated aluminum case
- Solvent proof (within 2 minutes)

■ Specifications

Items		Condition	Specifications						
Rated voltage (V)		—	25	35	40	50	63	80	100
Surge voltage (V)		Room temperature	32	44	50	63	79	100	125
Category temperature range (°C)		—	-55 to +105						
Capacitance tolerance (%)		120Hz/20°C	M: ±20						
Dissipation Factor (tan δ)		120Hz/20°C	0.16						
Leakage current (LC)		μA/after 2minutes (max)	The greater value of either 0.05CV or 100						
Temperature characteristics	Based the value at 120Hz, +20°C	-55°C Z/Z _{20°C}	1 to 2.5						
		105°C Z/Z _{20°C}	0.6 to 1.0						
Endurance	105°C 10,000hrs. rated voltage applied (With the rated ripple current)	ΔC/C	Within ±30% of the initial value						
		tan δ	≤ 2 times the initial specified value						
		ESR	≤ 2 times the initial specified value						
		LC	≤ The initial specified value						

■ Marking, Dimensions

φD	L	F	φd
8	9.5	3.5	0.6
10	9.5	5.0	0.7
10	11.5	5.0	0.7

■ Size List, ESR, Rated Ripple Current

μF	V	25			35			40			50		
		33										8×9.5	35
56								8×9.5	32	1750	10×9.5	25	2320
82											10×11.5	19	2650
100					8×9.5	30	1800	10×9.5	24	2400			
120								10×11.5	18	2750			
150	8×9.5	27	1900	10×9.5	23	2470							
220				10×11.5	17	2830							
270	10×9.5	22	2530										
330	10×11.5	16	2900										

μF	V	63			80			100		
		10							10×9.5	80
12					10×9.5	70	1600	10×9.5	80	1450
15					10×9.5	70	1600	10×11.5	60	1660
18					10×11.5	50	1830			
22	8×9.5	40	1560							
33	8×9.5 ★	40	1560							
	10×9.5	30	2100							
47	10×9.5	30	2100							
56	10×11.5	22	2400							

Please refer to page 21 for the ripple current frequency coefficient.
★S type

Rated ripple current
mA rms (100kHz, 105°C)

ESR(mΩ)max at 100kHz, 20°C

■ Model No.

