

Radial lead Type

GREEN
CAP

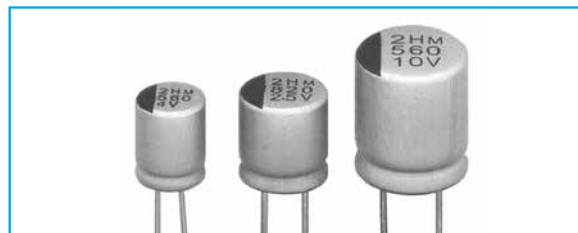
Low
ESR

105°C
2000hours

Anti-
cleaning
solvent

- Low ESR and high ripple current are realized.
- Guaranteed 105°C, 2000 hours.

PRM



Marking color : Red print

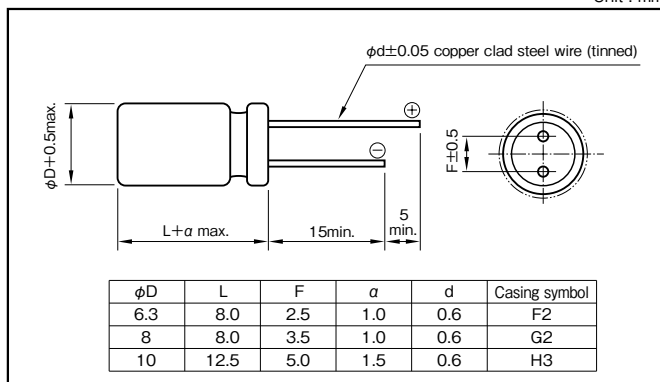
Specifications

Item	Performance		
Category temperature range (°C)	−55 to +105		
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)		
Leakage current (μA) *Note	Less than 0.2CV or 500 whichever is larger (after 2 minutes) C : Rated capacitance (μF) , V : Rated voltage (V) (20°C)		
Tangent of the loss angle (tanδ)	Less than values of standard ratings (20°C,120Hz)		
Characteristics at high and low temperature	Impedance ratio (max.)	Z−55°C/Z+20°C	1.25 (100kHz)
Endurance (105°C) (Applied ripple current)	Test time	2000 hours	
	Leakage current	The initial specified value or less	
	Percentage of capacitance change	Within ±20% of initial value	
	Tangent of the loss angle	150% or less of the initial specified value	
	ESR change	200% or less of the initial specified value	
Damp heat, steady state (humidity) 60°C, 90 to 95%RH	Test time	500 hours	
	Leakage current	The initial specified value or less	
	Percentage of capacitance change	Within ±20% of initial value	
	Tangent of the loss angle	150% or less of the initial specified value	
	ESR change	200% or less of the initial specified value	
Characteristics of applied surge voltage	The capacitors shall be subject to 1000 cycles each consisting of charge with the surge voltage specified at 105°C for 30 seconds through a protective resistor (Rc=1kΩ) in 6 minutes per cycle. Surge voltage : 1.15 times of rated voltage		
	Leakage current	The initial specified value or less	
	Percentage of capacitance change	Within ±20% of initial value	
	Tangent of the loss angle	150% or less of the initial specified value	
	ESR change	200% or less of the initial specified value	
Failure tare	0.5% per 1000 hours maximum (Confidence level 60% at 105°C)		

*Note : If any doubt arises, measure the leakage current after following voltage application treatment.
Voltage application treatment : DC rated voltage are applied to the capacitors for 120 minutes at 105°C.

Outline Drawing

Unit : mm



- Soldering conditions are described on page 14.
- The taping specifications are described on page 18,19.

Part numbering system (example : 4V560µF)

PRM	—	4	V	561	M	F2	B	—	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol	Optional symbol		Taping symbol

Standard Ratings

Rated voltage (V) Rated capacitance (μF)	Item	2.5				4				6.3				10			
		Case	tan δ	ESR	Rated ripple current	Case	tan δ	ESR	Rated ripple current	Case	tan δ	ESR	Rated ripple current	Case	tan δ	ESR	Rated ripple current
		φD×L (mm)		(mΩ max.)	(mA rms)	φD×L (mm)		(mΩ max.)	(mA rms)	φD×L (mm)		(mΩ max.)	(mA rms)	φD×L (mm)		(mΩ max.)	(mA rms)
220		—	—	—	—	—	—	—	—	—	—	—	—	6.3×8.0	0.10	10	4680
270		—	—	—	—	—	—	—	—	—	—	—	—	6.3×8.0	0.10	10	4680
330		6.3×8.0	0.10	7	5600	—	—	—	—	6.3×8.0	0.10	10	4680	8×8.0	0.08	10	5000
390		—	—	—	—	—	—	—	—	—	—	—	—	8×8.0	0.08	10	5000
470		6.3×8.0	0.10	7	5600	—	—	—	—	6.3×8.0	0.10	7	5600	8×8.0	0.08	8	5700
560		6.3×8.0	0.10	7	5600	6.3×8.0	0.10	7	5600	8×8.0	0.08	7	6100	10×12.5	0.12	12	5300
680		—	—	—	—	8×8.0	0.08	6	6100	8×8.0	0.08	8	5700	—	—	—	—
820		8×8.0	0.08	6	6100	8×8.0	0.08	6	6100	10×12.5	0.12	10	5500	—	—	—	—
1000		8×8.0	0.08	6	6100	10×12.5	0.12	8	5500	10×12.5	0.12	10	5500	—	—	—	—
1200		10×12.5	0.12	8	5500	10×12.5	0.12	8	5500	—	—	—	—	—	—	—	—
1500		10×12.5	0.12	8	5500	—	—	—	—	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 105°C , 100kHz ; ESR : 20°C , 100kHz

ALUMINUM

POLYMER
HYBRID

105°C