

Conductive Polymer Aluminum Solid Capacitor (Radial Type)

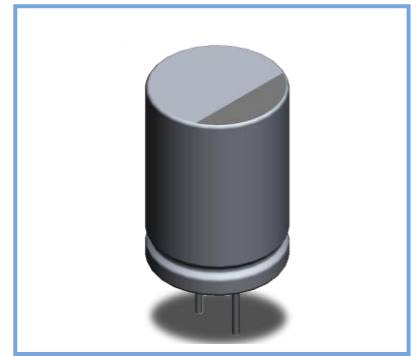


PEEA Series

MERITEK

FEATURES

- Standard radial lead type, high voltage
- Rated voltage: 2.5V_{DC} ~35V_{DC}
- Endurance: 2000hours at 105°C
- Suitable for DC-DC converters, voltage regulators and decoupling applications.



SPECIFICATIONS

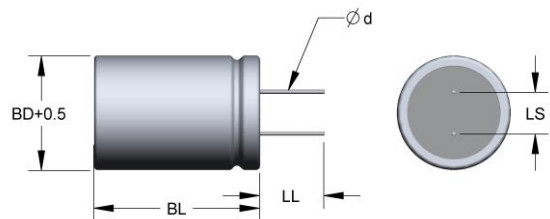
Item	Characteristic	
Category Temperature Range	-55°C ~ +105°C	
Rated Voltage Range	2.5V _{DC} ~ 35V _{DC}	
Surge Voltage	Rated voltage x 1.15V	at 105°C
Capacitance Tolerance	M=±20%	at 120Hz, 20°C
Leakage Current	Shall not exceed values shown in standard ratings	at 20°C after 2 minutes
Dissipation Factor (tan δ)	0.12 (max)	at 120Hz, 20°C
Temperature Stability	Impedance change Z(-55°C)/Z(+20°C)≤1.25 Z(+105°C)/Z(+20°C)≤1.25	at -55°C, 100kHz at +105°C, 100kHz
Endurance	Appearance: no significant damage Capacitance change: ≤ ±20% of the initial value DF(tanδ): ≤ 150% of the initial specified value ESR: ≤ 150% of the initial specified value Leakage current: ≤ the initial specified value	The specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2000hours at 105°C
Damp Heat, Steady State	Appearance: no significant damage Capacitance change: ≤ ±20% of the initial value DF(tanδ): ≤ 150% of the initial specified value ESR: ≤ 150% of the initial specified value Leakage current: ≤ the initial specified value	The specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to store at 60°C, 90%~95% R.H. for 1000hours, without DC applied.
Surge Voltage	Appearance: no significant damage Capacitance change: ≤ ±20% of the initial value DF(tanδ): ≤ 150% of the initial specified value ESR: ≤ 150% of the initial specified value Leakage current: ≤ the initial specified value	The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltages specified at 105°C for 30 seconds through a protective resistor (R=1kΩ) and discharge for 5 minutes 30 seconds

NOTE:

If any doubt arises, measure the leakage current after following voltage treatment -
Voltage treatment: DC rated voltage is applied to the capacitors for 60 minutes at 105°C

DIMENSIONS (mm)

Size code	0406	0606	0609	0809	0812	1012
BD+0.5 (max)	4.0	6.3	6.3	8.0	8.0	10.0
BL(max)	6.0	6.0	9.0	9.0	12.0	12.0
Φd±0.05	0.45	0.45	0.6	0.6	0.6	0.6
LS±0.4	1.5	2.5	2.5	3.5	3.5	5.0
LL±0.3	3.2	3.2	3.2	3.2	3.2	3.2



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STANDARD RATINGS

Part Number	Working Voltage(SV)	Capacitance	Size Code	Leakage Current	ESR ¹	Rated Ripple Current ²
	(Vdc)	(uF)		(uA)	(mΩ), max	(mArms)
PEEA2R5391M0606	2.5(2.9)	390	0606	195	20	3160
PEEA2R5821M0809	2.5(2.9)	820	0809	410	10	5230
PEEA2R5102M0812	2.5(2.9)	1000	0812	500	10	5230
PEEA2R5152M1012	2.5(2.9)	1500	1012	750	10	5560
PEEA4R0561M0809	4.0(4.6)	560	0809	448	12	4710
PEEA4R0821M1012	4.0(4.6)	820	1012	656	10	5560
PEEA4R0122M1012	4.0(4.6)	1200	1012	960	10	5560
PEEA6R3221M0606	6.3(7.2)	220	0606	277	15	3160
PEEA6R3331M0606	6.3(7.2)	330	0606	416	17	3390
PEEA6R3561M0809	6.3(7.2)	560	0809	705	15	4210
PEEA6R3821M1012	6.3(7.2)	820	1012	1033	12	5440
PEEA6R3102M1012	6.3(7.2)	1000	1012	1260	12	5440
PEEA6R3152M1012	6.3(7.2)	1500	1012	1890	12	5440
PEEA10V100M0406	10(11.5)	10	0406	300	80	700
PEEA10V271M0812	10(11.5)	270	0812	540	12	4710
PEEA10V471M1012	10(11.5)	470	1012	940	12	5440
PEEA16V470M0606	16(18.4)	47	0606	150	50	1650
PEEA16V101M0606	16(18.4)	100	0606	320	24	2490
PEEA16V101M0609	16(18.4)	100	0609	320	25	2820
PEEA16V221M0609	16(18.4)	220	0609	704	20	3160
PEEA16V271M0812	16(18.4)	270	0812	864	16	4070
PEEA16V331M1012	16(18.4)	330	1012	1056	16	4720
PEEA16V471M1012	16(18.4)	470	1012	1505	16	4720
PEEA16V681M1012	16(18.4)	680	1012	2176	16	4720
PEEA25V150M0606	25(28.7)	15	0606	75	55	1600
PEEA25V270M0606	25(28.7)	27	0606	135	40	2100
PEEA25V470M0809	25(28.7)	47	0809	235	28	3130
PEEA25V680M0809	25(28.7)	68	0809	340	24	3380
PEEA25V101M0812	25(28.7)	100	0812	500	22	3600
PEEA25V221M1012	25(28.7)	220	1012	1100	35	3100
PEEA35V220M0606	35(40.2)	22	0606	154	35	2400
PEEA35V220M0609	35(40.2)	22	0609	154	35	2600
PEEA35V330M0609	35(40.2)	33	0609	231	35	2600
PEEA35V470M0812	35(40.2)	47	0812	329	25	2890
PEEA35V101M0812	35(40.2)	100	0812	700	25	2890

NOTE:

1. Test condition: 20°C, 100kHz~300kHz
2. Test condition: 105°C, 100kHz