

## RE series

### Long Life to 15000hrs

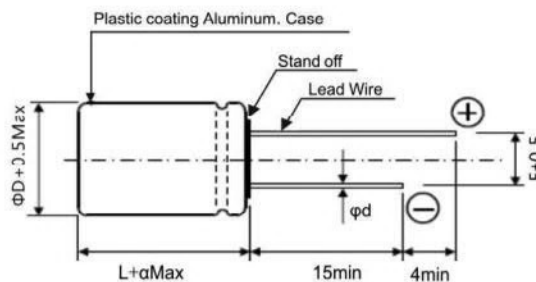
- Long life of 15000 hours at 105°C
- Compliant to the RoHS directive (2011/65/EU)

具有15000小时(105°C) 超长寿命, 产品满足RoHS指令(2011/65/EU)。

### » Specifications

Items	Characteristics	
Operating Temp. Range	-55°C ~ +105°C	
Capacitance Range	82 ~ 2700 uF	
Capacitance Tolerance	M: ± 20%	
Rated Voltage Range	2.5V ~ 25V DC	
Dissipation Factor	Not to exceed the value specified	
(at120Hz, 20°C )	Not to exceed the value specified (after 2 minutes)	
Leakage Current	Not to exceed the value specified	
ESR ( 100K~300KHz )	Capacitance Change	Within ± 20% of the value before test
	Leakage current	Not to exceed the value specified
Endurance 105°C, 15000h, at rated voltage	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified
	Capacitance Change	Within + 20% of the value before test
Moisture Resistance Stored at 60°C, Rh90 - 95%, 1000h	Leakage Current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified

### » Dimensions



Unit: mm

$\phi D \times L$	$\Phi D$ +0.5max.	$\alpha$	$F$ ± 0.5	$\Phi d$ ± 0.05
6.3 × 8	6.3	1.0	2.5	0.5
6.3 × 15	6.3	1.0	2.5	0.5
8 × 8	8.0	1.0	3.5	0.6
8 × 11.5	8.0	1.0	3.5	0.6
8 × 16	8.0	1.0	3.5	0.6
8 × 20	8.0	1.0	3.5	0.6

$\phi D \times L$	$\Phi D$ +0.5max.	$\alpha$	$F$ ± 0.5	$\Phi d$ ± 0.05
10 × 12.5	10.0	1.0	5.0	0.6
10 × 16	10.0	1.0	5.0	0.6
10 × 20	10.0	1.0	5.0	0.6

## » Capacitance List

W.V ( S.V ) SIZE	2.5 ( 2.8 )	4 ( 4.6 )	6.3 ( 7.2 )	10 ( 11.5 )	16 ( 18.4 )	20 ( 23 )	25 ( 28.7 )
6.3 × 8	560~820 uF	470~680 uF	330~560 uF	330~560 uF	180~270 uF	150~220 uF	82~120 uF
6.3 × 15					390~560 uF	330~470 uF	180~270 uF
8 × 8	680~1200 uF	560~1000 uF	470~820 uF	390~680 uF	220~390 uF	180~390 uF	100~220 uF
8 × 11.5	1000~1800 uF	820~1500 uF	560~1200 uF	470~1000 uF	330~560 uF	270~470 uF	150~270 uF
8 × 16					470~820 uF	390~680 uF	220~470 uF
8 × 20					680~1200 uF	560~1000 uF	270~560 uF
10 × 12.5	1500~2700 uF	1200~2400 uF	820~1800 uF	680~1500 uF	470~820 uF	390~820 uF	220~470 uF
10 × 16					680~1200 uF	560~1200 uF	330~680 uF
10 × 20					1000~1800 uF	820~1500 uF	470~1000 uF

## » Characteristics List

W.V (V)	Capacitance (uF)	L.C (uA, 2min)	tg δ (120Hz, 20°C)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r. m. s)	Size Φ D × L (mm)	Part Number
2.5	820	410	0.08	8	5400	6.3 × 8	RE821M2R5E080□□
	1200	600	0.08	8	5600	8 × 8	RE122M2R5F080□□
	1800	900	0.08	8	6100	8 × 11.5	RE182M2R5F115□□
	2700	1350	0.08	8	6400	10 × 12.5	RE272M2R5G125□□
4	560	448	0.08	8	5400	6.3 × 8	RE561M004E080□□
	1000	800	0.08	8	5600	8 × 8	RE102M004F080□□
	1500	1200	0.08	8	6100	8 × 11.5	RE152M004F115□□
	2200	1760	0.08	8	6400	10 × 12.5	RE222M004G125□□
6.3	560	705.6	0.08	8	5400	6.3 × 8	RE561M6R3E080□□
	820	1033.2	0.08	8	5600	8 × 8	RE821M6R3F080□□
	1000	1260	0.08	8	6100	8 × 11.5	RE102M6R3F115□□
	1500	1890	0.08	8	6400	10 × 12.5	RE152M6R3G125□□
10	470	940	0.08	8	5400	6.3 × 8	RE471M7R5E080□□
	560	1120	0.08	8	5500	8 × 8	RE561M010F080□□
	1000	2000	0.08	8	5600	8 × 11.5	RE102M010F115□□
	1200	2400	0.08	8	5800	10 × 12.5	RE122M010G125□□
16	330	660	0.10	15	3800	6.3 × 8	RE331M016E080□□
	330	1056	0.10	10	5400	6.3 × 15	RE331M016E150□□
	330	1056	0.10	16	4000	8 × 8	RE331M016F080□□
	560	1792	0.10	15	4900	8 × 11.5	RE561M016F115□□
	820	2624	0.10	8	7000	8 × 16	RE821M016F160□□
	1000	3000	0.10	8	7500	8 × 20	RE102M016F200□□
	1000	3000	0.10	10	5500	10 × 12.5	RE102M016G125□□
	1200	3000	0.10	8	7600	10 × 16	RE122M016G160□□
20	1800	3000	0.10	8	8000	10 × 20	RE182M016G200□□
	180	720	0.10	15	3800	6.3 × 8	RE181M020E080□□
	330	1320	0.10	10	5400	6.3 × 15	RE331M020E150□□

W.V. (V)	Capacitance ( $\mu$ F)	L.C. ( $\mu$ A, 2min)	$\text{tg } \delta$ (120Hz, 20°C)	ESR ( $\text{m}\Omega$ , 100kHz)	Rated Ripple Current (mA, r. m. s)	Size $\Phi$ D $\times$ L (mm)	Part Number
20	270	1080	0.10	16	4000	8 $\times$ 8	RE271M020F080□□
	470	1880	0.10	15	4900	8 $\times$ 11.5	RE471M020F115□□
	680	2720	0.10	8	7000	8 $\times$ 16	RE681M020F160□□
	820	1640	0.10	8	7500	8 $\times$ 20	RE821M020F200□□
	680	2720	0.10	10	5500	10 $\times$ 12.5	RE681M020G125□□
	1000	3000	0.10	8	7600	10 $\times$ 16	RE102M020G160□□
	1200	3000	0.10	8	8000	10 $\times$ 20	RE122M020G200□□
25	100	500	0.10	25	2800	6.3 $\times$ 8	RE101M025E080□□
	220	1100	0.10	15	4200	6.3 $\times$ 15	RE221M025E150□□
	220	1100	0.10	20	3700	8 $\times$ 8	RE221M025F080□□
	220	1100	0.10	15	4700	8 $\times$ 11.5	RE221M025F115□□
	330	1650	0.10	10	6400	8 $\times$ 16	RE331M025F160□□
	470	2350	0.10	10	7000	8 $\times$ 20	RE471M025F200□□
	470	2350	0.10	12	5200	10 $\times$ 12.5	RE471M025G125□□
	680	3000	0.10	10	7300	10 $\times$ 16	RE681M025G160□□
	1000	3000	0.10	10	7600	10 $\times$ 20	RE102M025G200□□

### »» Frequency Coefficient for Ripple Current

Frequency	120Hz $\leq$ freq. < 1KHz	1KHz $\leq$ freq. < 10KHz	10KHz $\leq$ freq. < 100KHz	100KHz $\leq$ freq. < 300KHz
Coefficient	0.05	0.3	0.7	1