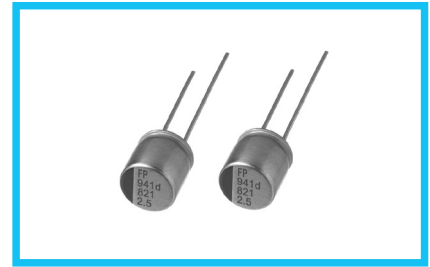


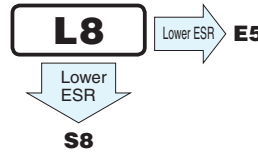
L8 series Low ESR, Low Profile ($\phi 8$)



FPCAP



- Ultra Low ESR, High ripple current.
- Low Profile(Height 8mm).
- Load life of 2000/5000 hours at 105°C.
- Radial lead type : Lead free flow soldering condition correspondence.
- Compliant to the RoHS directive (2011/65/EU).



■ Specifications

| Item | Performance Characteristics | |
|---------------------------------------|--|---|
| Category Temperature Range | -55 to +105°C | |
| Rated Voltage Range | 2.5 to 35V | |
| Rated Capacitance Range | 100 to 1500 μ F | |
| Capacitance Tolerance | $\pm 20\%$ at 120Hz, 20°C | |
| Tangent of loss angle (tan δ) | Less than or equal to the specified value at 120Hz, 20°C | |
| ESR (*1) | Less than or equal to the specified value at 100kHz, 20°C | |
| Leakage Current (*2) | Less than or equal to the specified value. After 2 minutes' application of rated voltage at 20°C | |
| Endurance | Test condition | 105°C, rated voltage 2000 / 5000Hrs. |
| | Capacitance change | Within $\pm 20\%$ of initial value before test |
| | tan δ | 150% or less than the initial specified value |
| | ESR(*1) | 150% or less than the initial specified value |
| | Leakage current (*2) | Less than or equal to the initial specified value |

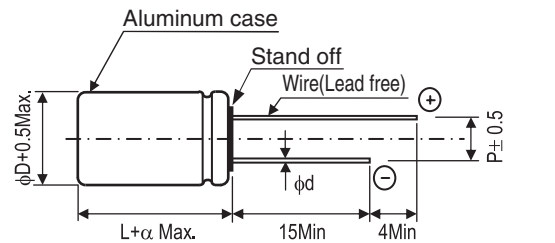
*1 ESR should be measured at both of the terminal ends closest to the capacitor body.

*2 Conditioning : If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.

■ Size List

[$\phi D \times L$ (mm)]

| Cap [μ F] | R.V.(V) | | S.V.(V) | | [$\phi D \times L$ (mm)] | |
|----------------|---------|-----|---------|-----|---------------------------|--|
| | 2.5 | 4.0 | 6.3 | 16 | 35 | |
| 100 | | | | 8x8 | 8x8 | |
| 180 | | | | 8x8 | | |
| 220 | | | | 8x8 | | |
| 270 | | | | 8x8 | | |
| 330 | | | | 8x8 | | |
| 470 | | | 8x8 | | | |
| 560 | 8x8 | 8x8 | 8x8 | | | |
| 680 | | | 8x8 | | | |
| 820 | 8x8 | 8x8 | 8x8 | | | |
| 1000 | 8x8 | | 8x8 | | | |
| 1200 | 8x8 | | | | | |
| 1500 | 8x8 | | | | | |



| $\phi D \times L$ | ϕd | P | α |
|-------------------|----------|-----|----------|
| 8x8 | 0.6 | 3.5 | 1.0 |

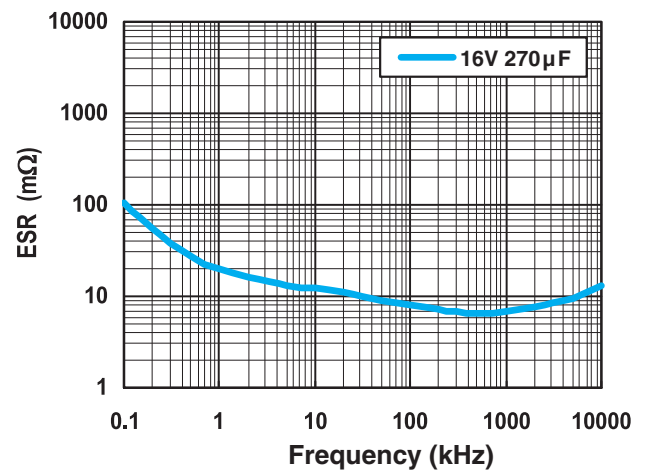
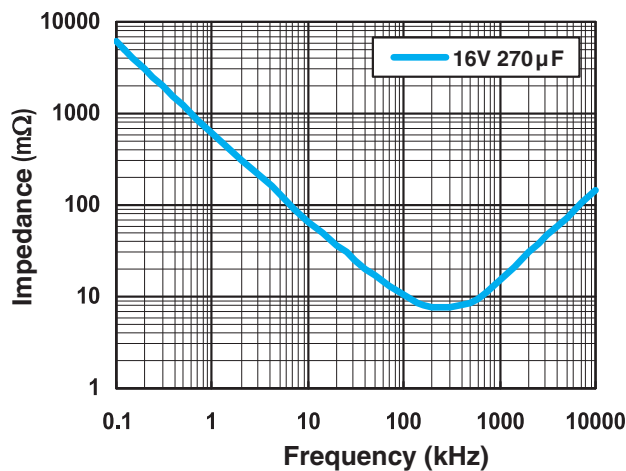
L8 series

■ Standard Ratings

| Rated Voltage (V) (code) | Surge Voltage (V) | Rated Capacitance (μF) | Case Size φD×L (mm) | tan δ | Leakage Current (μA, 2min.) | ESR (mΩ, 100kHz) | Rated Ripple Current (mA rms) | NICHICON | FPCAP |
|--------------------------|-------------------|------------------------|---------------------|-------|-----------------------------|------------------|-------------------------------|------------------|----------------------|
| 2.5 (0E) | 2.8 | 560 | 8×8 | 0.12 | 500 | 6 | 6100 | RL80E561MDN1□□ | FP-2R5RE561M-L8□□ |
| | | ※560 | 8×8 | 0.12 | 500 | 6 | 6100 | RL80E561MDNASQ□□ | FP-2R5RE561M-L8□□-5K |
| | | 820 | 8×8 | 0.12 | 513 | 6 | 6100 | RL80E821MDN1□□ | FP-2R5RE821M-L8□□ |
| | | ※820 | 8×8 | 0.12 | 513 | 6 | 6100 | RL80E821MDNASQ□□ | FP-2R5RE821M-L8□□-5K |
| | | 1000 | 8×8 | 0.12 | 625 | 6 | 6100 | RL80E102MDN1□□ | FP-2R5RE102M-L8□□ |
| | | 1200 | 8×8 | 0.12 | 750 | 7 | 6100 | RL80E122MDN1□□ | FP-2R5RE122M-L8□□ |
| | | 1500 | 8×8 | 0.12 | 938 | 7 | 6100 | RL80E152MDN1□□ | FP-2R5RE152M-L8□□ |
| 4.0 (0G) | 4.6 | 560 | 8×8 | 0.12 | 560 | 6 | 6100 | RL80G561MDN1□□ | FP-4R0RE561M-L8□□ |
| | | ※560 | 8×8 | 0.12 | 560 | 6 | 6100 | RL80G561MDNASQ□□ | FP-4R0RE561M-L8□□-5K |
| | | 820 | 8×8 | 0.12 | 820 | 6 | 6100 | RL80G821MDN1□□ | FP-4R0RE821M-L8□□ |
| 6.3 (0J) | 7.2 | 470 | 8×8 | 0.12 | 592 | 8 | 5700 | RL80J471MDN1□□ | FP-6R3RE471M-L8□□ |
| | | ※470 | 8×8 | 0.12 | 592 | 8 | 5700 | RL80J471MDNASQ□□ | FP-6R3RE471M-L8□□-5K |
| | | 560 | 8×8 | 0.12 | 706 | 8 | 5700 | RL80J561MDN1□□ | FP-6R3RE561M-L8□□ |
| | | ※560 | 8×8 | 0.12 | 706 | 8 | 5700 | RL80J561MDNASQ□□ | FP-6R3RE561M-L8□□-5K |
| | | 680 | 8×8 | 0.12 | 857 | 8 | 5700 | RL80J681MDN1□□ | FP-6R3RE681M-L8□□ |
| | | 820 | 8×8 | 0.12 | 1033 | 8 | 5700 | RL80J821MDN1□□ | FP-6R3RE821M-L8□□ |
| | | 1000 | 8×8 | 0.12 | 1260 | 9 | 5700 | RL80J102MDN1□□ | FP-6R3RE102M-L8□□ |
| 16 (1C) | 18.4 | 100 | 8×8 | 0.12 | 320 | 12 | 5000 | RL81C101MDN1□□ | FP-016RE101M-L8□□ |
| | | 180 | 8×8 | 0.12 | 576 | 12 | 5000 | RL81C181MDN1□□ | FP-016RE181M-L8□□ |
| | | 220 | 8×8 | 0.12 | 704 | 12 | 5000 | RL81C221MDN1□□ | FP-016RE221M-L8□□ |
| | | 270 | 8×8 | 0.12 | 864 | 10 | 5000 | RL81C271MDN1□□ | FP-016RE271M-L8□□ |
| | | 330 | 8×8 | 0.12 | 1056 | 12 | 5000 | RL81C331MDN1□□ | FP-016RE331M-L8□□ |
| 35 (1V) | 40.2 | 100 | 8×8 | 0.12 | 700 | 25 | 3000 | RL81V101MDN1□□ | FP-035RE101M-L8□□ |

※ : Load life 5000hours.

■ Frequency Characteristics (The frequency characteristics are typical and not a guaranteed value.)



- Taping specifications are given in page 26, 27.
- Please refer to page 3 for the minimum order quantity.