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| Series                           |                    |                              |    | Features   | Endurance<br>(hours) | Temperature<br>(°C )         | Rated<br>Voltage<br>Range<br>(V.DC) | Capacitance<br>Range<br>( μF ) | Page |
|----------------------------------|--------------------|------------------------------|----|--|----------------------|------------------------------|-------------------------------------|--------------------------------|------|
| Aluminum Electrolytic Capacitors | High Frequency Use | High ripple<br>Low Impedance | LF | 105°C , High Frequency ,<br>Low Impedance, Long life                 | 5000/7000            | -40°C~+105°C<br>-25°C~+105°C | 160~400<br>450                      | 10~330<br>3.3~68               |      |
|                                  |                    |                              | YA | 105°C High Ripple Current,<br>For Electronic Ballast,<br>Long Life   | 3000~7000            | -40°C~+105°C                 | 6.3~100                             | 6.8~18000                      |      |
|                                  |                    |                              | EB | Long life, High Frequency,<br>High Ripple Current                    | 3000~7000            | -40°C~+105°C<br>-25°C~+105°C | 10~100<br>160~450                   | 0.47~3300<br>10~330            |      |
|                                  |                    |                              | XF | 105°C, Low Impedance,<br>Long life                                   | 2000~10000           | -40°C~+105°C                 | 6.3~250                             | 0.47~15000                     |      |
|                                  | Special<br>Used    | Special<br>Application       | EH | For Photo Flash, 55°C,<br>5000 Times Charge and Discharge            | 2000                 | -20°C~+55°C                  | 300~330                             | 50~240                         |      |
|                                  |                    |                              | XH | High Temperature Range,<br>For 125°C Use                             | 2000                 | -40°C~+125°C<br>-25°C~+125°C | 10~250<br>350~450                   | 1~4700<br>4.7~47               |      |
|                                  | Snap-in            | General<br>Purpose           | GS | Snap-in, PCB Terminal, Power<br>Supply Input/output Filter Capacitor | 2000                 | -40°C~+85°C<br>-25°C~+85°C   | 16~100<br>160~450                   | 1000~33000<br>82~1800          |      |
|                                  |                    |                              | GH | Snap-in, PCB Terminal,<br>105°C Guaranteed                           | 2000                 | -40°C~+105°C<br>-25°C~+105°C | 16~100<br>160~450                   | 1000~33000<br>47~33000         |      |
|                                  |                    |                              | MP | Long Life, Snap-in,<br>105°C Guaranteed                              | 4000                 | -25°C~+105°C                 | 160~450                             | 82~2700                        |      |
|                                  |                    |                              | MZ | High Ripple Current, Snap-in   | 2000~3000            | -25°C~+105°C                 | 160~450                             | 39~3300                        |      |
|                                  |                    | Low<br>Profile               | KM | Snap-in, 105°C Guaranteed,<br>20mm Height                            | 2000                 | -25°C~+105°C                 | 160~400                             | 39~390                         |      |
|                                  |                    |                              | MQ | Terminal Downsized, Snap-in  | 2000                 | -25°C~+105°C                 | 160~450                             | 68~3300                        |      |
|                                  | Srew-<br>mount     | For<br>Inverter              | MH | Computer Grade, Screw Terminal<br>Type, 105°C Guaranteed             | 2000                 | -40°C~+105°C<br>-25°C~+105°C | 10~100<br>160~400                   | 180~680000<br>560~27000        |      |

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| Series   |  |  | Features | Endurance<br>(hours)   | Temperature<br>(°C ) | Rated<br>Voltage<br>Range<br>(V.DC)       | Capacitance<br>Range<br>( μF ) | Page                            |  |
|--|--|--|----------|--|----------------------|---|--------------------------------|---------------------------------|--|
| Conductive Polymer Aluminum Solid<br>Electrolytic Capacitors | Chip Type  |  | MA       | Standard   | 2000                 | -55℃~-+105℃                               | 2.5~25                         | 3.3~1500                        |  |
|  |  |  | MB       | Low ESR, Higher Capacitance  | 2000                 | -55℃~-+105℃                               | 2.5~16                         | 33~2700                         |  |
|  |  |  | MS       | Long life Assurance  | 5000                 | -55℃~-+105℃                               | 4~16                           | 22~560                          |  |
|  |  |  | MV       | High Voltage/Long life Assurance                                     | 3000                 | -55℃~-+105℃                               | 16~125                         | 5.6~680                         |  |
|  |  |  | MR       | High Voltage/High Reliability  | 1500~3000            | -55℃~-+125℃                               | 16~50                          | 5.6~390                         |  |
|  | Radial Lead Type                                       |  | PA       | Standard   | 2000                 | -55℃~-+105℃                               | 2.5~6.3                        | 6.8~1500                        |  |
|  |  |  | PB       | Ultra-low ESR  | 2000                 | -55℃~-+105℃                               | 2.5~16                         | 470~1500                        |  |
|  |  |  | PS       | Long life Assurance  | 5000                 | -55℃~-+105℃                               | 2.5~16                         | 100~1500                        |  |
|  |  |  | PV       | High Voltage/Long life Assurance                                     | 3000                 | -55℃~-+105℃                               | 16~100                         | 6.8~470                         |  |
|  |  |  | PR       | High Voltage/High Reliability  | 3000                 | -55℃~-+125℃                               | 16~50                          | 22~390                          |  |
| Aluminum Electrolytic Capacitors                             | Chip Type  |  | CK       | Standard,wide temperature range                                      | 1000~2000            | -40℃~-+105℃                               | 4~450                          | 0.1~6800                        |  |
|  |  |  | EL       | Long Life assurance  | 2000~3000            | -55℃~-+105℃                               | 6.3~50                         | 0.1~1500                        |  |
|  |  |  | KL       | Long Life assurance  | 3000~5000            | -55℃~-+105℃                               | 6.3~100                        | 0.1~1500                        |  |
|  |  |  | KH       | 125℃ high temperature,<br>high reliability                           | 1000~5000            | -40℃~-+125℃                               | 10~450                         | 3.3~2200                        |  |
|  |  |  | CH       | High voltage, long life  | 3000                 | -40℃~-+105℃                               | 160~450                        | 3.3~100                         |  |
|  |  |  | HU       | High voltage, long life  | 5000                 | -40℃~-+105℃                               | 160~450                        | 3.3~47                          |  |
|  |  |  | LZ       | Low impedance  | 1000~2000            | -55℃~-+105℃                               | 6.3~50                         | 1~4700                          |  |
|  |  |  | KZ       | Extra low impedance  | 1000~3000            | -55℃~-+105℃                               | 6.3~50                         | 4.7~4700                        |  |
|  |  |  | FZ       | Long life,Extra low impedance  | 2000~5000            | -55℃~-+105℃                               | 6.3~100                        | 3.3~4700                        |  |
|  |  |  | KP       | Non-polarized, wide temperature<br>range                             | 1000                 | -55℃~-+105℃                               | 6.3~50                         | 0.1~47                          |  |
|  |  |  | SC       | Low leakage Current  | 2000                 | -40℃~-+85℃                                | 6.3~50                         | 0.1~220                         |  |
|  | Miniature<br><br>Low Profile                           |  | SG       | 105℃ Guaranteed, Low Profile,<br>Height 9mm                          | 1000                 | -40℃~-+105℃                               | 6.3~50                         | 1.0~470                         |  |
|  |  |  | SL       | High Temp.Range, For 125℃ Use  | 1000                 | -40℃~-+125℃                               | 6.3~50                         | 0.1~220                         |  |
|  |  |  | LA       | Low Leakage Current, Height 7mm                                      | 1000                 | -40℃~-+105℃                               | 6.3~63                         | 0.1~100                         |  |
|  |  |  | SK       | 105℃ CAP. ±10%, Height 7mm   | 1000                 | -40℃~-+105℃                               | 6.3~50                         | 0.1~330                         |  |
|  |  |  | UH       | 105℃ , Height 5mm  | 1000                 | -40℃~-+105℃                               | 6.3~50                         | 0.1~100                         |  |
|  |  |  | TP       | Bi-polarized, Height 5mm   | 1000                 | -40℃~-+105℃                               | 6.3~50                         | 0.1~47                          |  |
|  | Miniature<br><br>General Purpose                       |  | HG       | Wide Temp. Range, Standard   | 1000                 | -40℃~-+105℃<br>-25℃~-+105℃                | 6.3~350<br>400~450             | 0.1~22000                       |  |
|  |  |  | EG       | Wide Temp. Range, Standard   | 2000                 | -40℃~-+105℃<br>-25℃~-+105℃                | 6.3~350<br>400~450             | 0.1~15000<br>1~68               |  |
|  |  |  | GC       | Miniaturized, Smaller Case Size<br>than EG Series                    | 2000                 | -40℃~-+105℃<br>-25℃~-+105℃                | 6.3~350<br>400~450             | 0.1~22000<br>1~68               |  |
|  | High Frequency Use<br><br>High ripple<br>Low Impedance |  | LR       | LOW ESR , Wide Temp.Range  | 2000                 | -40℃~-+105℃                               | 6.3~100                        | 0.1~15000                       |  |
|  |  |  | LH       | LOW ESR , High Frequency,<br>Wide Temp.Range, High Ripple<br>Current | 2000                 | -40℃~-+105℃                               | 6.3~100                        | 6.8~18000                       |  |
|  |  |  | ZL       | 105℃ , High Frequency ,<br>Low Impedance                             | 2000~4000            | -55℃~-+105℃<br>-40℃~-+105℃<br>-25℃~-+105℃ | 6.3~100<br>160~400<br>450      | 0.47~10000<br>3.3~220<br>2.2~33 |  |