# リード線形アルミニウム電解コンデンサ
RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS

Rubycon

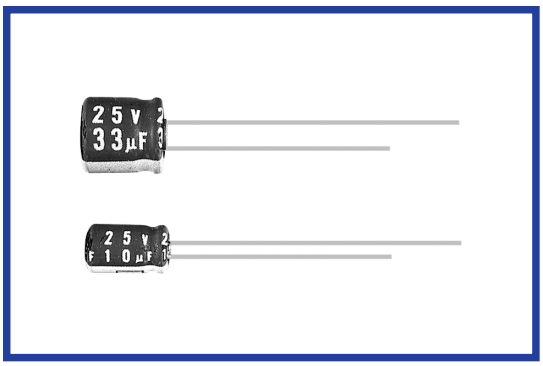
MS7

## MS7 シリーズ SERIES

**85℃ 高さ7mm品**
**85℃ 7mm Height**

・85℃ 1000時間品。
Load Life : 85℃ 1000 hours.

RoHS compliance




## ◆規格表／SPECIFICATIONS

| 項　目　Items | 特　性　Characteristics |
|---|---|
| カテゴリ温度範囲<br>Category Temperature Range | −40〜+85℃ |
| 定格電圧範囲<br>Rated Voltage Range | 4〜63Vdc |
| 静電容量許容差<br>Capacitance Tolerance | ±20%（20℃,120Hz） |
| 漏れ電流<br>Leakage Current(MAX) | I=0.01CV又は3μAのいずれか大なる値以下（定格電圧印加2分後）<br>I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage)<br>I=漏れ電流(μA) Leakage Current　C=静電容量(μF) Capacitance　V=定格電圧(Vdc) Rated Voltage |
| 損失角の正接(tanδ)<br>Dissipation Factor(MAX) | 定格電圧(Vdc) Rated Voltage: 4 / 6.3 / 10 / 16 / 25 / 35 / 50 / 63<br>tanδ: 0.35 / 0.24 / 0.20 / 0.17 / 0.15 / 0.13 / 0.10 / 0.10<br>（20℃,120Hz） |
| 耐久性<br>Endurance | 85℃中で1000時間定格電圧（リプル重畳）印加後、下記項目を満足すること。<br>After applying rated voltage with rated ripple current for 1000 hrs at 85℃, the capacitors shall meet the following requirements.<br>静電容量変化率 Capacitance Change：初期値の±20%以内 Within ±20% of the initial value.<br>損失角の正接 Dissipation Factor：規格値の200%以下 Not more than 200% of the specified value.<br>漏れ電流 Leakage Current：規格値以下 Not more than the specified value. |
| 低温特性<br>Low Temperature Stability<br>（インピーダンス比）<br>Impedance Ratio(MAX) | 定格電圧(Vdc) Rated Voltage: 4 / 6.3 / 10 / 16 / 25 / 35 / 50 / 63<br>Z(−25℃)/Z(20℃): 7 / 4 / 3 / 3 / 2 / 2 / 2 / 2<br>Z(−40℃)/Z(20℃): 15 / 10 / 8 / 6 / 4 / 4 / 4 / 4<br>（120Hz） |

## ◆リプル電流補正係数／MULTIPLIER FOR RIPPLE CURRENT

周波数係数　Frequency coefficient

| 周波数(Hz) Frequency | | 60(50) | 120 | 500 | 1k | 10k≦ |
|---|---|---|---|---|---|---|
| 係数 Coefficient | 1μF | 0.50 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 2.2〜4.7μF | 0.65 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 10〜47μF | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 100〜470μF | 0.80 | 1.00 | 1.10 | 1.15 | 1.20 |

## ◆副記号／OPTION

| | 記号 Code |
|---|---|
| PETスリーブ PET Sleeve | EFC |

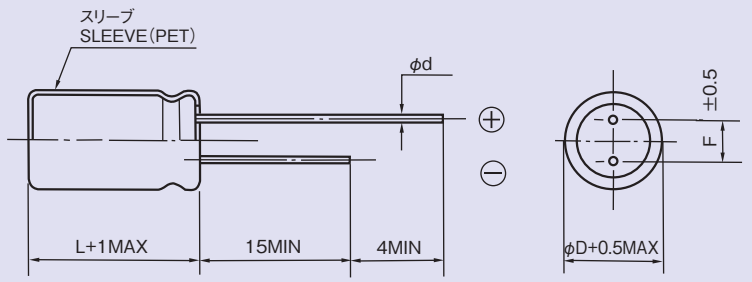
## ◆呼称方法／PART NUMBER

| □□□ | MS7 | □□□□□ | M | □□□ | □□ | D×L |
|---|---|---|---|---|---|---|
| 定格電圧 Rated Voltage | シリーズ名 Series | 静電容量 Capacitance | 静電容量許容差 Capacitance Tolerance | 副記号 Option | リード加工記号 Lead Forming | ケースサイズ Case Size |

# リード線形アルミニウム電解コンデンサ
**RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS** — **MS7**

## ◆寸法図／DIMENSIONS

(mm)




| φD | 4 | 5 | 6.3 | 8 |
|---|---|---|---|---|
| φd | 0.45 | | | |
| F | 1.5 | 2.0 | 2.5 | 3.5 |

## ◆標準品一覧表／STANDARD SIZE

Size φD×L(mm), Rated Ripple Current (mA r.m.s./85℃, 120Hz)

| 定格電圧 Vdc / 静電容量 Cap(μF) | 4 | | 6.3 | | 10 | | 16 | |
|---|---|---|---|---|---|---|---|---|
| | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 10 | | | | | | | 4×7 | 28 |
| 22 | | | 4×7 | 34 | 4×7 | 38 | 4×7 | 42 |
| 33 | 4×7 | 33 | 4×7 | 42 | 4×7 | 46 | 5×7 | 62 |
| 47 | 4×7 | 39 | 4×7 | 50 | 5×7 | 66 | 5×7 | 73 |
| 100 | 5×7 | 65 | 5×7 | 87 | 6.3×7 | 99 | 6.3×7 | 110 |
| 220 | 6.3×7 | 110 | 6.3×7 | 133 | 8×7 | 165 | 8×7 | 145 |
| 330 | 8×7 | 165 | 8×7 | 180 | 8×7 | 210 | | |
| 470 | 8×7 | 190 | | | | | | |

| 定格電圧 Vdc / 静電容量 Cap(μF) | 25 | | 35 | | 50 | | 63 | |
|---|---|---|---|---|---|---|---|---|
| | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 1 | | | | | 4×7 | 12 | 4×7 | 12 |
| 2.2 | | | | | 4×7 | 16 | 4×7 | 16 |
| 3.3 | | | 4×7 | 18 | 4×7 | 19 | 5×7 | 24 |
| 4.7 | 4×7 | 21 | 4×7 | 22 | 4×7 | 24 | 6.3×7 | 33 |
| 10 | 4×7 | 31 | 5×7 | 32 | 5×7 | 42 | 6.3×7 | 45 |
| 22 | 5×7 | 55 | 6.3×7 | 60 | 6.3×7 | 64 | | |
| 33 | 6.3×7 | 66 | 6.3×7 | 73 | 8×7 | 75 | | |
| 47 | 6.3×7 | 80 | 8×7 | 95 | 8×7 | 85 | | |
| 100 | 8×7 | 115 | 8×7 | 115 | | | | |