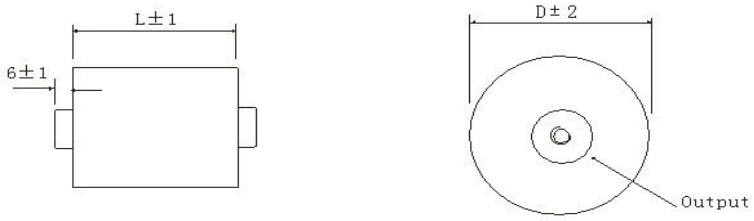
VDTCAP

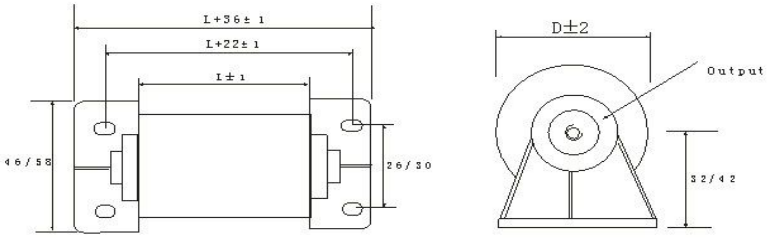
FA series High ripple current

| GENERAL TECHNICAL CHARACTERISTICS | |
|---|---|
| Reference standards : | IEC 61071-60068 |
| Climatic category: | 40/85/56 |
| Dielectric : | Polypropylene film |
| Construction : | Extended metallized film ,Dry construction |
| Features: | Low ESR,Low Ls,high ripple current |
| Coating : | Polyester tape wrapping; UL94V-0 resin |
| **ELECTRICAL CHARACTERISTICS** | |
| Working temperature : | -40 to + 85℃(max hotspot≤85℃) |
| Storage temperature : | -40 to + 85℃ |
| Capacitance : | 1.0~200μF |
| Rated Voltage | 400 to 1200 Vdc |
| Tolerance : | ± 5%(J) ± 10%(K) |
| Life expectancy : | 100,000 hours at Un and 70℃ |
| **TEST METHODS AND PERFORMANCES** | |
| Insulation resistance : | ≥5,000s after 1 minute of electrification at 100Vdc (25±5℃) |
| Test voltage between terminals: | 1.5Un applied for 10s at 25±5℃ |
| Test voltage between terminals and case : | 3.0 KV 50Hz for 60 sec |

## ▲Outline drawing




Style A ( Mobile stand )




Style B (Fixed bracket )

## ▲Part Numbering System

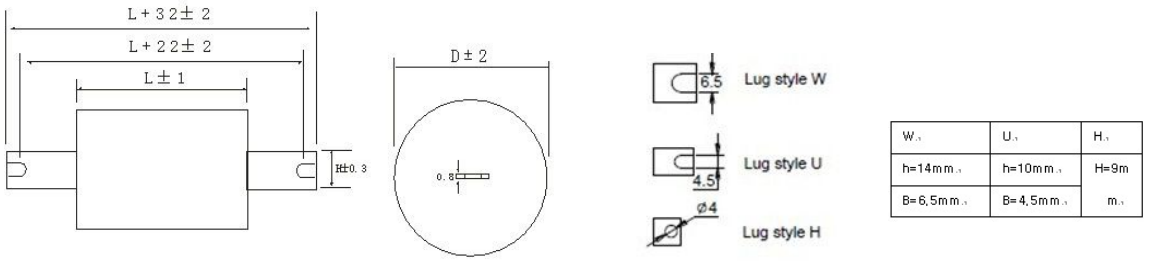
| 140 | FA* | 206 | # | 40 | P | & |
|---|---|---|---|---|---|---|
| Voltage | Type | Capacitance | Tolerance | Length | Screws | Lug |
| 140=400vdc | FAA | 105=1uf | J= ±5% | 40=L=40mm | P=M6 | FAA or FAB NO |
| 180=800vdc | FAB | 106=10uf | K= ±10% | 50=L=50mm | Y=M8 | FAC=W U H |
| 212=1200vdc | FAC | 107=100uf | M= ±20% | | L= Style C | |

▲FAA or FAB series electrical specifications

| Part Number | CAP | Dimension (mm) | | du/dt | Irms@25°C | ESR@1.0k | Output |
|---|---|---|---|---|---|---|---|
| | μF | L | D | v/μs | @10kHz(A) | Hz(mΩ) | insert |
| Un 400Vdc Urms 250Vac | | | | | | | |
| 140FA*206#40P | 20 | 40 | 44 | 70 | 27 | 3.5 | M6 |
| 140FA*256#50P | 25 | 50 | 47 | 60 | 32 | 3.0 | M6 |
| 140FA*306#50P | 30 | 50 | 50 | 60 | 37 | 2.8 | M6 |
| 140FA*406#50P | 40 | 50 | 58 | 60 | 46 | 2.5 | M6 |
| 140FA*506#50P | 50 | 50 | 64 | 60 | 54 | 2.2 | M6 |
| 140FA*606#60P | 60 | 60 | 57 | 60 | 46 | 2.9 | M6 |
| 140FA*806#60P | 80 | 60 | 66 | 60 | 56 | 2.0 | M6 |
| 140FA*107#60P | 100 | 60 | 74 | 60 | 66 | 1.8 | M6 |
| 140FA*157#60Y | 150 | 60 | 90 | 60 | 90 | 1.6 | M8 |
| 140FA*207#60Y | 200 | 60 | 104 | 60 | 100 | 1.2 | M8 |
| Un 800Vdc Urms 400Vac | | | | | | | |
| 180FA*106#40P | 10 | 40 | 42 | 80 | 25 | 4.5 | M6 |
| 180FA*156#50P | 15 | 50 | 44 | 70 | 32 | 3.3 | M6 |
| 180FA*206#50P | 20 | 50 | 52 | 70 | 40 | 2.8 | M6 |
| 180FA*256#50P | 25 | 50 | 58 | 70 | 45 | 2.5 | M6 |
| 180FA*306#50P | 30 | 50 | 63 | 70 | 50 | 2.1 | M6 |
| 180FA*406#60P | 40 | 60 | 63 | 50 | 48 | 3.0 | M6 |
| 180FA*506#60P | 50 | 60 | 70 | 50 | 55 | 2.6 | M6 |
| 180FA*606#60P | 60 | 60 | 76 | 50 | 65 | 2.3 | M6 |
| 180FA*806#64Y | 80 | 64 | 88 | 50 | 80 | 2.0 | M8 |
| 180FA*107#64Y | 100 | 64 | 98 | 50 | 95 | 1.8 | M8 |
| Un 1200Vdc Urms 500Vac | | | | | | | |
| 212FA*505#40P | 5 | 40 | 44 | 120 | 23 | 5.0 | M6 |
| 212FA*106#50P | 10 | 50 | 58 | 100 | 38 | 3.3 | M6 |
| 212FA*156#50P | 15 | 50 | 70 | 100 | 52 | 2.6 | M6 |
| 212FA*206#60P | 20 | 60 | 66 | 80 | 45 | 3.3 | M6 |
| 212FA*256#60P | 25 | 60 | 74 | 80 | 55 | 3.0 | M6 |
| 212FA*306#64Y | 30 | 64 | 81 | 80 | 65 | 2.6 | M8 |
| 212FA*406#64Y | 40 | 64 | 93 | 80 | 78 | 2.3 | M8 |
| 212FA*506#64Y | 50 | 64 | 104 | 80 | 90 | 2.0 | M8 |

*Special design available to meet your requirements

## ▲Outline drawing




| W | U | H |
|---|---|---|
| h=14mm | h=10mm | H=9m |
| B=6.5mm | B=4.5mm | m |

Style C

▲FAC series electrical specificationss

| Part Number | CAP | Dimension (mm) | | du/dt | Irms@25°C | ESR@1.0kHz |
|---|---|---|---|---|---|---|
| | μF | L | D | v/μs | @10kHz（A） | (mΩ) |
| Un 400Vdc Urms 250Vac | | | | | | |
| 140FAC305#37L& | 3.0 | 37 | 21 | 74 | 9 | 8.5 |
| 140FAC505#37L& | 5.0 | 37 | 26 | 74 | 13 | 5.8 |
| 140FAC106#44L& | 10 | 44 | 30 | 60 | 16 | 5.4 |
| 140FAC156#44L& | 15 | 44 | 36 | 60 | 22 | 4.0 |
| 140FAC206#44L& | 20 | 44 | 41 | 60 | 27 | 3.5 |
| 140FAC256#44L& | 25 | 44 | 47 | 60 | 32 | 2.6 |
| 140FAC306#60L& | 30 | 60 | 41 | 30 | 27 | 4.0 |
| 140FAC406#60L& | 40 | 60 | 48 | 30 | 34 | 3.1 |
| 140FAC506#60L& | 50 | 60 | 53 | 30 | 40 | 2.5 |
| Un 800Vdc Urms 400Vac | | | | | | |
| 180FAC205#37L& | 2.0 | 37 | 22 | 110 | 10 | 11.0 |
| 180FAC305#37L& | 3.0 | 37 | 27 | 110 | 14 | 7.5 |
| 180FAC505#37L& | 5.0 | 37 | 34 | 110 | 16 | 6.0 |
| 180FAC106#44L& | 10 | 44 | 37 | 70 | 22 | 4.0 |
| 180FAC156#44L& | 15 | 44 | 45 | 70 | 31 | 3.0 |
| 180FAC206#60L& | 20 | 60 | 45 | 50 | 30 | 3.5 |
| 180FAC256#60L& | 25 | 60 | 50 | 50 | 35 | 3.0 |
| 180FAC306#60L& | 30 | 60 | 55 | 50 | 40 | 2.5 |
| 180FAC406#60L& | 40 | 60 | 63 | 50 | 50 | 2.3 |
| Un 1200Vdc Urms 500Vac | | | | | | |
| 212FAC105#37L& | 1.0 | 37 | 23 | 190 | 9 | 12.0 |
| 212FAC205#37L& | 2.0 | 37 | 32 | 190 | 15 | 6.5 |
| 212FAC305#44L& | 3.0 | 44 | 32 | 120 | 17 | 8.5 |
| 212FAC505#44L& | 5.0 | 44 | 41 | 120 | 23 | 5.5 |
| 212FAC106#60L& | 10 | 60 | 48 | 80 | 29 | 5.3 |
| 212FAC156#60L& | 15 | 60 | 58 | 80 | 38 | 4.0 |
| 212FAC206#60L& | 20 | 60 | 67 | 80 | 47 | 3.2 |

*Special design available to meet your requirements