

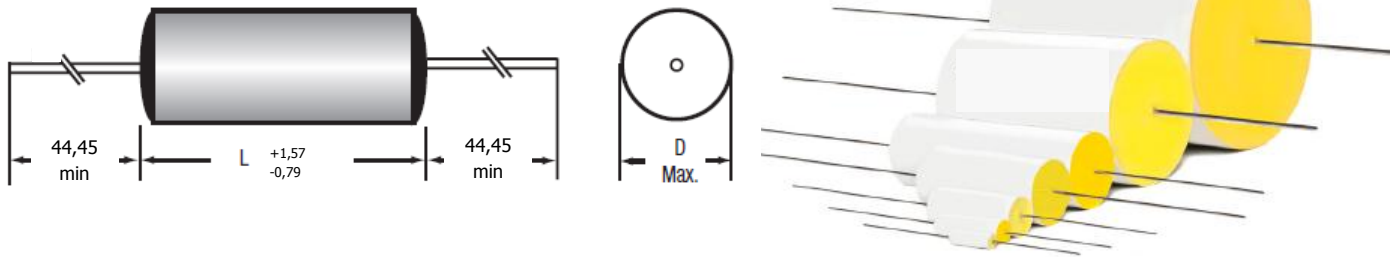
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METALLIZED POLYESTER FILM CAPACITORS

REFERENCE : **E 430 P**

DRAWING

Dimensions in mm



LEAD WIRE SIZES

| Case Dia. | Lead AWG |
|-----------|------------------|
| < 6,85 mm | 0,635 mm (N° 22) |
| ≥ 6,85 mm | 0,812 mm (N° 20) |

TECHNOLOGY

Non-inductive wound metallized polyester
 Flame retardant tape wrap and epoxy end fill
 Solder coated solid wire

GENERAL CHARACTERISTICS

| | |
|--------------------------------|--|
| Capacitance range | 0,001 μ F to 10 μ F |
| Capacitance tolerance | \pm 20%, \pm 10%, \pm 5% |
| Voltage range | 63 V _{DC} to 16000 V _{DC} 40 V _{AC} to 220 V _{AC} |
| Operating temperature | - 55°C to + 125°C |
| Voltage derating | at + 125°C, 50% of the 85°C rating |
| Dissipation factor | 0,8% maximum \leq 1 μ F 1,0% maximum $>$ 1 μ F |
| Insulation resistance at +25°C | 25,000 M Ω . μ F (need to exceed 50,000 M Ω) |
| Insulation resistance at +85°C | 1,000 M Ω . μ F (need to exceed 2,500 M Ω) |

MARKING

Model
 Capacitance – Tolerance
 Voltage

| Issue Indice | Date Date | Modif. nb N° modif. | Nature of modification Nature de la modification | | Technical Technique | Manufacturing Production | Quality Qualité |
|--------------------------------|--------------|------------------------|---|------|------------------------|-----------------------------|--------------------|
| A | 25/09/2014 | | First issue | | | | |
| EUROFARAD – Film Business Unit | | | | Visa | Date / Visa | Date / Visa | Date / Visa |

MAXIMUM PULSE RISE TIME

| Capacitor Length (mm) | Rise time dV/dt (V/μs) | | | | | | | | | | | |
|-----------------------|------------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| | 63V _{DC} | 100V _{DC} | 250V _{DC} | 400V _{DC} | 630V _{DC} | 1000V _{DC} | 2000V _{DC} | 4000V _{DC} | 6000V _{DC} | 8000V _{DC} | 10000V _{DC} | 16000V _{DC} |
| 15,88 | 46 | 51 | 75 | 100 | 250 | - | - | - | - | - | - | - |
| 19,05 | 28 | 34 | 48 | 75 | 130 | - | - | - | - | - | - | - |
| 24,4 | 16 | 19 | 27 | 45 | 75 | 89 | 170 | - | - | - | - | - |
| 28,60 | - | - | - | - | - | - | - | 1200 | - | - | - | - |
| 31,75 | 12 | 13 | 19 | 30 | 45 | - | - | - | - | - | - | - |
| 38,10 | 9 | 10 | 15 | 21 | 35 | - | - | - | 2750 | - | - | - |
| 44,45 | - | 9 | 12 | 19 | 25 | 30 | 50 | 450 | - | - | - | - |
| 47,60 | - | - | - | - | - | - | - | - | - | 5000 | - | - |
| 50,80 | - | - | - | - | 25 | - | - | - | - | - | - | - |
| 57,15 | - | - | - | - | - | - | - | - | - | - | 7500 | - |
| 63,50 | - | - | - | - | - | - | - | - | 1000 | - | - | - |
| 77,80 | - | - | - | - | - | - | - | - | - | - | - | 12000 |
| 80,95 | - | - | - | - | - | - | - | - | - | 1900 | - | - |

MAXIMUM PULSE RISE TIME

| Capacitance μF | 63V _{DC} / 40V _{AC} | | 100V _{DC} / 63V _{AC} | | 250V _{DC} / 160V _{AC} | | 400V _{DC} / 200V _{AC} | | 630V _{DC} / 220V _{AC} | | 1000V _{DC} | |
|----------------|---------------------------------------|-------|--|-------|---|-------|---|-------|---|-------|----------------------|-------|
| | D | L | D | L | D | L | D | L | D | L | D | L |
| 0,0047 | | | | | | | | | 4,75 | 15,88 | | |
| 0,0068 | | | | | | | | | 5,31 | 15,88 | | |
| 0,010 | | | | | | | | | 6,07 | 15,88 | | |
| 0,015 | | | | | | | 4,72 | 15,88 | 5,69 | 19,05 | | |
| 0,022 | | | | | | | 5,33 | 15,88 | 6,53 | 19,05 | | |
| 0,033 | | | | | | | 6,12 | 15,88 | 7,62 | 19,05 | | |
| 0,047 | | | | | 5,08 | 15,88 | 6,99 | 15,88 | 6,83 | 25,40 | 7,67 | 25,40 |
| 0,068 | | | | | 5,72 | 15,88 | 6,76 | 19,05 | 7,90 | 25,40 | 8,81 | 25,40 |
| 0,10 | | | 5,18 | 15,88 | 5,61 | 19,05 | 7,87 | 19,05 | 9,27 | 25,40 | 10,28 | 25,40 |
| 0,15 | 5,33 | 15,88 | 5,92 | 15,88 | 6,45 | 19,05 | 7,44 | 25,40 | 9,35 | 31,75 | 12,42 | 25,40 |
| 0,22 | 6,10 | 15,88 | 5,79 | 19,05 | 7,49 | 19,05 | 8,69 | 25,40 | 9,78 | 38,10 | 14,58 | 25,40 |
| 0,33 | 7,09 | 15,88 | 6,71 | 19,05 | 7,09 | 25,40 | 8,89 | 31,75 | 10,87 | 44,45 | 11,60 | 44,45 |
| 0,47 | 6,83 | 19,05 | 6,25 | 25,40 | 8,15 | 25,40 | 9,25 | 38,10 | 12,62 | 44,45 | 13,41 | 44,45 |
| 0,68 | 7,90 | 19,05 | 7,19 | 25,40 | 9,53 | 25,40 | 10,21 | 44,45 | 14,86 | 44,45 | 15,69 | 44,45 |
| 1 | 7,39 | 25,40 | 7,26 | 31,75 | 9,65 | 31,75 | 11,99 | 44,45 | | | 18,61 | 44,45 |
| 1,5 | 8,74 | 25,40 | 8,92 | 31,75 | 11,53 | 31,75 | 14,30 | 44,45 | | | | |
| 2 | 10,16 | 25,40 | 9,98 | 31,75 | 11,91 | 38,10 | 16,26 | 44,45 | | | | |
| 2,5 | 11,13 | 25,40 | 10,92 | 31,75 | 13,11 | 38,10 | | | | | | |
| 3 | 10,11 | 31,75 | 11,79 | 31,75 | 14,20 | 38,10 | | | | | | |
| 4 | 11,02 | 38,10 | 12,55 | 38,10 | 14,73 | 44,45 | | | | | | |
| 5 | 12,09 | 38,10 | 13,82 | 38,10 | 16,28 | 44,45 | | | | | | |
| 6 | 13,08 | 38,10 | 15,01 | 38,10 | 17,70 | 44,45 | | | | | | |
| 7 | 14,00 | 38,10 | 16,08 | 38,10 | | | | | | | | |
| 10 | 16,43 | 38,10 | 17,22 | 44,45 | | | | | | | | |
| Capacitance μF | 2000V _{DC} | | 4000V _{DC} | | 6000V _{DC} | | 8000V _{DC} | | 10000V _{DC} | | 16000V _{DC} | |
| | D | L | D | L | D | L | D | L | D | L | D | L |
| 0,0010 | | | 7,64 | 28,60 | 7,72 | 38,10 | 7,46 | 47,60 | 8,55 | 57,15 | 9,82 | 77,75 |
| 0,0015 | | | 7,64 | 28,60 | 7,72 | 38,10 | 8,68 | 47,60 | 9,14 | 57,15 | 11,45 | 77,75 |
| 0,0022 | | | 7,64 | 28,60 | 8,45 | 38,10 | 9,42 | 47,60 | 9,14 | 57,15 | 13,41 | 77,75 |
| 0,0033 | | | 8,28 | 28,60 | 9,67 | 38,10 | 9,42 | 47,60 | 10,59 | 57,15 | 15,95 | 77,75 |
| 0,0047 | | | 8,28 | 28,60 | 9,67 | 38,10 | 10,89 | 47,60 | 12,19 | 57,15 | 18,64 | 77,75 |
| 0,0068 | | | 9,55 | 28,60 | 11,30 | 38,10 | 12,95 | 47,60 | 14,22 | 57,15 | 22,04 | 77,75 |
| 0,010 | | | 11,17 | 28,60 | 13,48 | 38,10 | 15,24 | 47,60 | 16,81 | 57,15 | 26,41 | 77,75 |
| 0,015 | 7,84 | 25,40 | 13,48 | 28,60 | 16,05 | 38,10 | 18,21 | 47,60 | 20,14 | 57,15 | 34,36 | 77,75 |
| 0,022 | 9,09 | 25,40 | 10,33 | 44,45 | 19,02 | 38,10 | 21,66 | 47,60 | 24,02 | 57,15 | | |
| 0,033 | 10,69 | 25,40 | 12,44 | 44,45 | 14,75 | 63,50 | 26,16 | 47,60 | | | | |
| 0,047 | 12,62 | 25,40 | 11,88 | 44,45 | 17,22 | 63,50 | 19,58 | 47,60 | | | | |
| 0,068 | 14,75 | 25,40 | 16,94 | 44,45 | 20,32 | 63,50 | 23,19 | 80,95 | | | | |
| 0,10 | 10,49 | 44,45 | 20,14 | 44,45 | 25,62 | 63,50 | | | | | | |
| 0,15 | 12,64 | 44,45 | 24,28 | 44,45 | | | | | | | | |
| 0,22 | 14,85 | 44,45 | 29,03 | 44,45 | | | | | | | | |
| 0,33 | 17,75 | 44,45 | | | | | | | | | | |