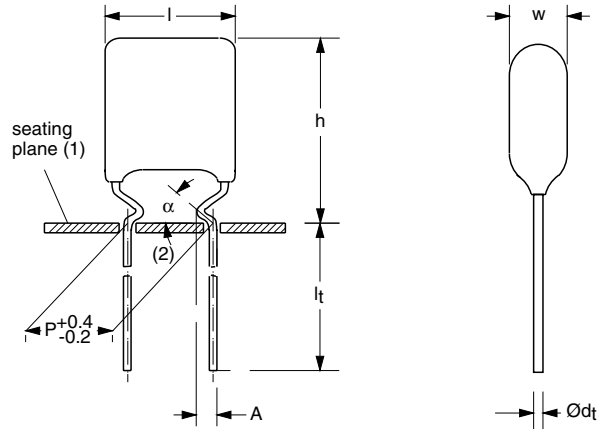


Metallized Polyester Film Capacitors

MKT Radial Epoxy Lacquered Type



Dimensions in mm

(1) Hole \varnothing 1.0 for $d_t = 0.5$ mm

(2) $0 \leq \alpha < 50^\circ$

(3) $A = 1.7 \pm 0.3$ mm

APPLICATIONS

Blocking and coupling. Bypass and energy reservoir

MARKING

C-value; tolerance; rated voltage

DIELECTRIC

Polyester film

ELECTRODES

Vacuum deposited aluminum

COATING

Flame retardant epoxy material (UL-class 94 V-0)

CONSTRUCTION

Wound mono construction

LEADS

Tinned wire

CAPACITANCE RANGE (E12 SERIES)

0.0033 to 1.0 μ F

FEATURES

Available taped and loose in box

Lead (Pb)-free product

RoHS-compliant product

CAPACITANCE TOLERANCE

$\pm 10\%$; $\pm 5\%$

RATED (DC) VOLTAGE

63 V; 100 V; 250 V; 400 V

RATED (AC) VOLTAGE

40 V; 63 V; 160 V; 220 V

CLIMATIC CATEGORY

55/105/56

RATED TEMPERATURE

85 °C

MAXIMUM APPLICATION TEMPERATURE

105 °C

REFERENCE SPECIFICATIONS

IEC 60384-2

PERFORMANCE GRADE

Grade 1 (long life)

DETAIL SPECIFICATION

For more detailed data and test requirements contact:

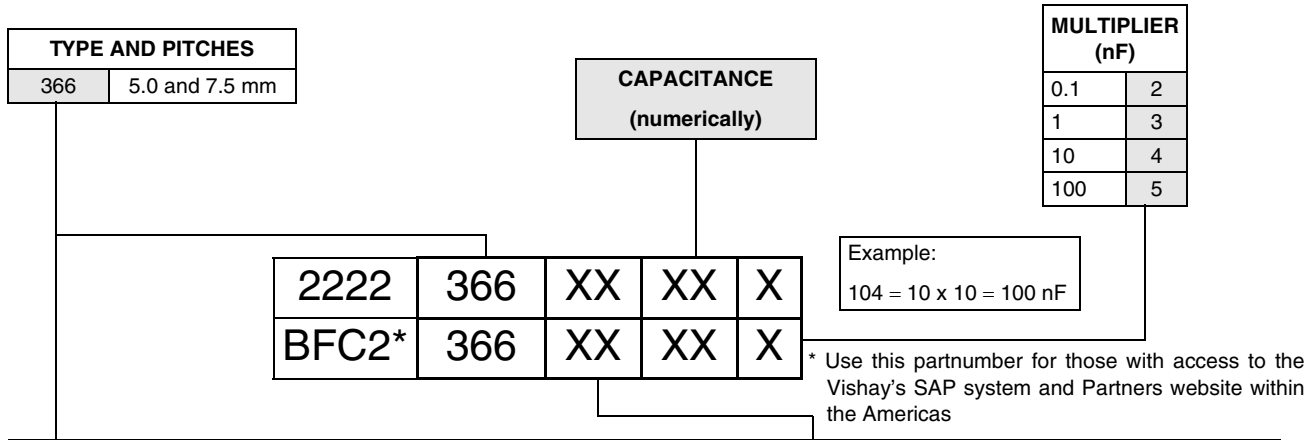
filmcaps.roeselare@vishay.com



RoHS
COMPLIANT



COMPOSITION OF CATALOG NUMBER



| TYPE | PACKAGING | LEAD CONFIGURATION | ON REQUEST | | | | |
|-----------------------|--------------|--|------------|------|-------|-------|-------|
| | | | C-TOL | 63 V | 100 V | 250 V | 400 V |
| Pitch = 5.0 mm | | | | | | | |
| 366 | loose in box | kinked leads 4.0 + 1.0/- 0.5 mm | ± 10 % | 75 | 85 | – | – |
| | | | ± 5 % | 76 | 86 | – | – |
| | | kinked leads 17.0 ± 4.0 mm | ± 10 % | 71 | 81 | – | – |
| | | | ± 5 % | 72 | 82 | – | – |
| Pitch = 7.5 mm | | | | | | | |
| 366 | loose in box | kinked leads 4.0 + 1.0/- 0.5 mm | ± 10 % | 15 | 25 | 45 | 55 |
| | | | ± 5 % | 16 | 26 | 46 | 56 |
| | | kinked leads 17.0 ± 4.0 mm | ± 10 % | 11 | 21 | 41 | 51 |
| | | | ± 5 % | 12 | 22 | 42 | 52 |
| | ammopack | kinked leads; H = 16.0 mm; P ₀ = 12.7 mm | ± 10 % | 13 | 23 | 43 | 53 |
| | | | ± 5 % | 17 | 27 | 47 | 57 |

SPECIFIC REFERENCE DATA

| DESCRIPTION | VALUE | | | |
|--|-------------------------|--------------------------|--------------------------|-----------------|
| | at 1 kHz | at 10 kHz | at 100 kHz | |
| Tangent of loss angle: | | | | |
| C ≤ 0.47 μF | ≤ 75 × 10 ⁻⁴ | ≤ 130 × 10 ⁻⁴ | ≤ 225 × 10 ⁻⁴ | |
| 0.47 μF < C ≤ 1.0 μF | ≤ 75 × 10 ⁻⁴ | ≤ 130 × 10 ⁻⁴ | – | |
| Rated voltage pulse slope (dU/dt) _R | at 63 V (DC) | at 100 V (DC) | at 250 V (DC) | at 400 V (DC) |
| | 110 V/μs | 110 V/μs | 130 V/μs | 170 V/μs |
| R between leads, for C ≤ 0.33 μF: | | | | |
| at 10 V; 1 minute | > 15000 MΩ | | | |
| at 100 V; 1 minute | | > 15000 MΩ | > 30000 MΩ | > 30000 MΩ |
| RC between leads, for C > 0.33 μF at 10 V; 1 minute | > 5000 s | > 5000 s | | |
| R between interconnecting leads and casing; 100 V; 1 minute | > 30000 MΩ | > 30000 MΩ | > 30000 MΩ | > 30000 MΩ |
| Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s | 100 V; 1 minute | 160 V; 1 minute | 400 V; 1 minute | 640 V; 1 minute |



Metallized Polyester Film Capacitors Vishay BCcomponents
MKT Radial Epoxy Lacquered Type

$U_{Rdc} = 63 V$; $U_{Rac} = 40 V$

| C (μF) | DIMENSIONS $W_{max} \times H_{max} \times L_{max}$ (mm) | MASS (g) | CATALOG NUMBER 2222 366 AND PACKAGING | | | | | | |
|--|---|---------------------------------------|---|---------------|-----------------------|---------------------------------------|----------------|---------------|------|
| | | | LOOSE IN BOX | | | | AMMOPACK | | |
| | | | It = 4.0 + 1.0/- 0.5 mm | | It = 17.0 ± 4.0 mm | | H = 16.0 mm | | |
| | | | C-TOL = ± 10 % | C-TOL = ± 5 % | SPQ | SPQ | C-TOL = ± 10 % | C-TOL = ± 5 % | SPQ |
| last 5 digits of catalog number | | last 5 digits of catalog number | | | | last 5 digits of catalog number | | SPQ | |
| Pitch = 5.0 + 0.4/- 0.2 mm; $d_t = 0.50 \pm 0.05$ mm | | | | | | | | | |
| 0.047 | 4.0 × 12.5 × 7.3 | 0.3 | 75473 | 76473 | 1000 | 1000 | | | |
| 0.056 | | | 75563 | 76563 | | | | | |
| 0.068 | | | 75683 | 76683 | | | | | |
| 0.082 | | | 75823 | 76823 | | | | | |
| 0.1 | | | 75104 | 76104 | | | | | |
| 0.12 | | | 75124 | 76124 | | | | | |
| 0.15 | 4.0 × 13.0 × 7.3 | 0.3 | 75154 | 76154 | 1000 | 1000 | | | |
| 0.18 | 4.0 × 13.5 × 7.3 | 0.4 | 75184 | 76184 | 1000 | 1000 | | | |
| 0.22 | 4.2 × 13.5 × 7.3 | 0.4 | 75224 | 76224 | 1000 | 1000 | | | |
| 0.27 | 4.5 × 14.0 × 7.3 | 0.4 | 75274 | 76274 | 1000 | 1000 | | | |
| 0.33 | 4.5 × 14.5 × 7.3 | 0.4 | 75334 | 76334 | 1000 | 1000 | | | |
| 0.39 | | | 75394 | 76394 | | | | | |
| 0.47 | 4.5 × 15.5 × 7.3 | 0.4 | 75474 | 76474 | 1000 | 1000 | | | |
| 0.56 | 5.0 × 14.0 × 7.3 | 0.4 | 75564 | 76564 | 1000 | 1000 | | | |
| 0.68 | 5.5 × 14.5 × 7.3 | 0.4 | 75684 | 76684 | 1000 | 1000 | | | |
| 0.82 | 5.5 × 15.0 × 7.3 | 0.5 | 75824 | 76824 | 1000 | 1000 | | | |
| 1.0 | 5.5 × 15.5 × 7.3 | 0.5 | 75105 | 76105 | 1000 | 1000 | | | |
| Pitch = 7.5 + 0.4/- 0.2 mm; $d_t = 0.60 \pm 0.06$ mm | | | | | | | | | |
| 0.12 | 4.0 × 12.0 × 10.0 | 0.4 | 15124 | 16124 | 1000 | 1000 | 13124 | 17124 | 1500 |
| 0.15 | | | 15154 | 16154 | | | 13154 | 17154 | |
| 0.18 | | | 15184 | 16184 | | | 13184 | 17184 | |
| 0.22 | | | 15224 | 16224 | | | 13224 | 17224 | |
| 0.27 | 4.5 × 13.0 × 10.5 | 0.5 | 15274 | 16274 | 1000 | 1000 | 13274 | 17274 | 1250 |
| 0.33 | 5.0 × 13.5 × 10.5 | 0.6 | 15334 | 16334 | 1000 | 1000 | 13334 | 17334 | 1000 |
| 0.39 | | 0.4 | 15394 | 16394 | | | 13394 | 17394 | |
| 0.47 | 5.5 × 14.0 × 10.5 | 0.7 | 15474 | 16474 | 1000 | 1000 | 13474 | 17474 | 1000 |
| 0.56 | 5.5 × 14.5 × 10.5 | 0.8 | 15564 | 16564 | 1000 | 1000 | 13564 | 17564 | 1000 |
| 0.68 | | | 15684 | 16684 | | | 13684 | 17684 | |
| 0.82 | | | 15824 | 16824 | | | 13824 | 17824 | |
| 1.0 | | | 15105 | 16105 | | | 13105 | 17105 | |

$U_{Rdc} = 100\text{ V}$; $U_{Rac} = 63\text{ V}$

| C (μF) | DIMENSIONS $W_{max} \times H_{max} \times L_{max}$ (mm) | MASS (g) | CATALOG NUMBER 2222 366 AND PACKAGING | | | | | | |
|---|---|-------------|---|---------------------------------------|---------------------------|------|---------------------------------------|---------------------------------------|------|
| | | | LOOSE IN BOX | | | | AMMOPACK | | |
| | | | It = 4.0 + 1.0/- 0.5 mm | | It = 17.0 \pm 4.0 mm | | H = 16.0 mm | | |
| | | | C-TOL = $\pm 10\%$ | C-TOL = $\pm 5\%$ | SPQ | SPQ | C-TOL = $\pm 10\%$ | C-TOL = $\pm 5\%$ | SPQ |
| | | | | | | | | | |
| | | | last 5 digits of catalog number | last 5 digits of catalog number | | | last 5 digits of catalog number | last 5 digits of catalog number | |
| Pitch = 5.0 + 0.4/- 0.2 mm; $d_t = 0.50 \pm 0.05\text{ mm}$ | | | | | | | | | |
| 0.01 | 4.5 \times 12.5 \times 7.3 | 0.3 | 85103 | 86103 | 1000 | 1000 | | | |
| 0.012 | | | 85123 | 86123 | | | | | |
| 0.015 | | | 85153 | 86153 | | | | | |
| 0.018 | | | 85183 | 86183 | | | | | |
| 0.022 | | | 85223 | 86223 | | | | | |
| 0.027 | | | 85273 | 86273 | | | | | |
| 0.033 | | | 85333 | 86333 | | | | | |
| 0.039 | | | 85393 | 86393 | | | | | |
| 0.047 | 4.5 \times 12.5 \times 7.3 | 0.3 | 85473 | 86473 | 1000 | 1000 | | | |
| 0.056 | | | 85563 | 86563 | | | | | |
| 0.068 | | | 85683 | 86683 | | | | | |
| 0.082 | 4.5 \times 13.0 \times 7.3 | 0.3 | 85823 | 86823 | 1000 | 1000 | | | |
| 0.1 | 4.5 \times 13.5 \times 7.3 | 0.4 | 85104 | 86104 | 1000 | 1000 | | | |
| 0.12 | | | 85124 | 86124 | | | | | |
| 0.15 | | | 85154 | 86154 | | | | | |
| 0.18 | | | 85184 | 86184 | | | | | |
| 0.22 | 4.5 \times 13.5 \times 7.3 | 0.4 | 85224 | 86224 | 1000 | 1000 | | | |
| 0.27 | 4.5 \times 14.0 \times 7.3 | 0.4 | 85274 | 86274 | 1000 | 1000 | | | |
| Pitch = 7.5 + 0.4/- 0.2 mm; $d_t = 0.60 \pm 0.06\text{ mm}$ | | | | | | | | | |
| 0.039 | 4.0 \times 12.0 \times 10.0 | 0.4 | 25393 | 26393 | 1000 | 1000 | 23393 | 27393 | 1500 |
| 0.047 | | | 25473 | 26473 | | | 23473 | 27473 | |
| 0.056 | | | 25563 | 26563 | | | 23563 | 27563 | |
| 0.068 | | | 25683 | 26683 | | | 23683 | 27683 | |
| 0.082 | | | 25823 | 26823 | | | 23823 | 27823 | |
| 0.1 | 4.0 \times 13.0 \times 10.0 | 0.4 | 25104 | 26104 | 1000 | 1000 | 23104 | 27104 | 1500 |
| 0.12 | 4.5 \times 13.0 \times 10.5 | 0.5 | 25124 | 26124 | 1000 | 1000 | 23124 | 27124 | 1250 |
| 0.15 | 5.0 \times 13.0 \times 10.5 | 0.6 | 25154 | 26154 | 1000 | 1000 | 23154 | 27154 | 1000 |
| 0.18 | 5.0 \times 13.5 \times 10.5 | 0.6 | 25184 | 26184 | 1000 | 1000 | 23184 | 27184 | 1000 |
| 0.22 | 5.5 \times 13.5 \times 10.5 | 0.7 | 25224 | 26224 | 1000 | 1000 | 23224 | 27224 | 1000 |
| 0.27 | 6.0 \times 14.5 \times 10.5 | 0.7 | 25274 | 26274 | 1000 | 1000 | 23274 | 27274 | 1000 |
| 0.33 | 6.0 \times 15.0 \times 10.5 | 0.7 | 25334 | 26334 | 1000 | 1000 | 23334 | 27334 | 1000 |
| 0.39 | | | 25394 | 26394 | | | 23394 | 27394 | |
| 0.47 | | | 25474 | 26474 | | | 23474 | 27474 | |



Metallized Polyester Film Capacitors Vishay BCcomponents
MKT Radial Epoxy Lacquered Type

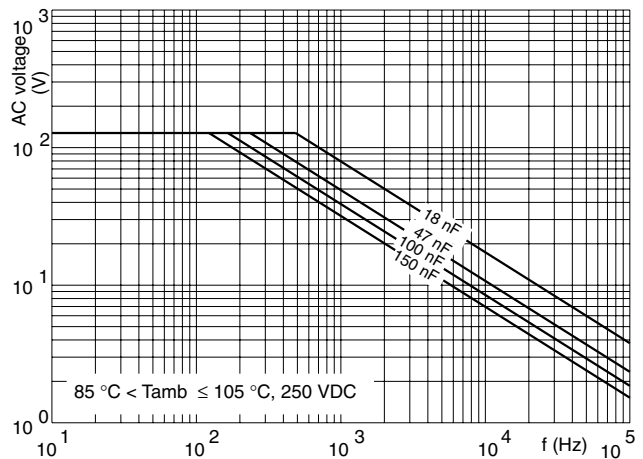
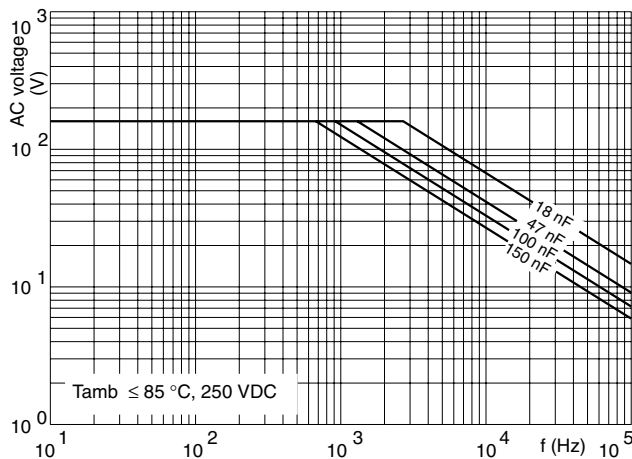
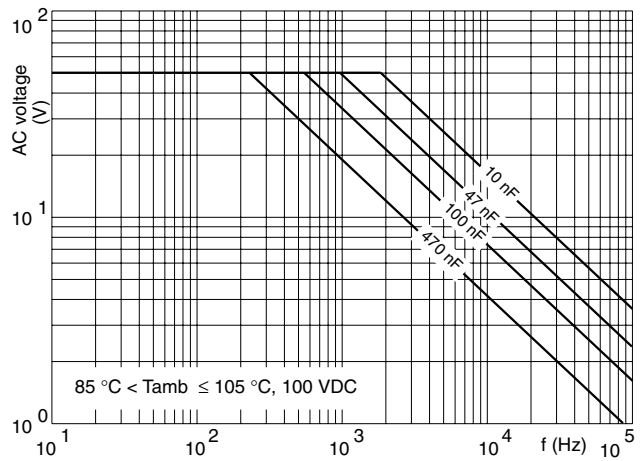
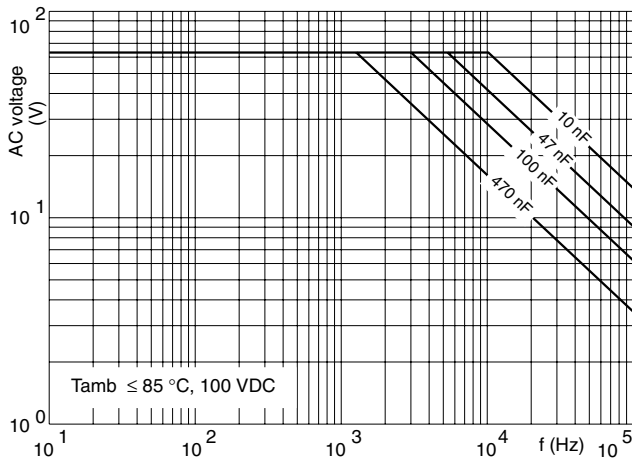
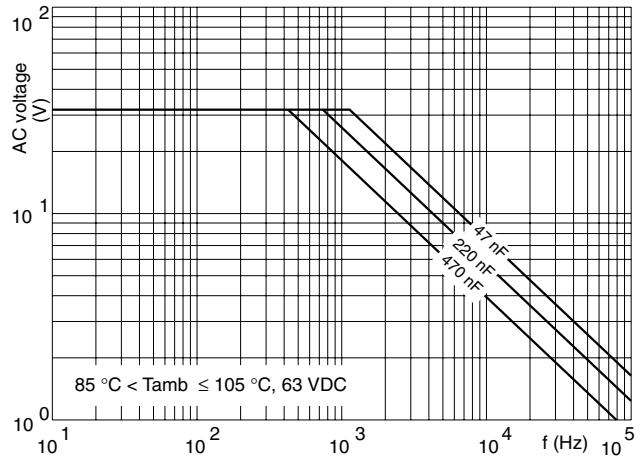
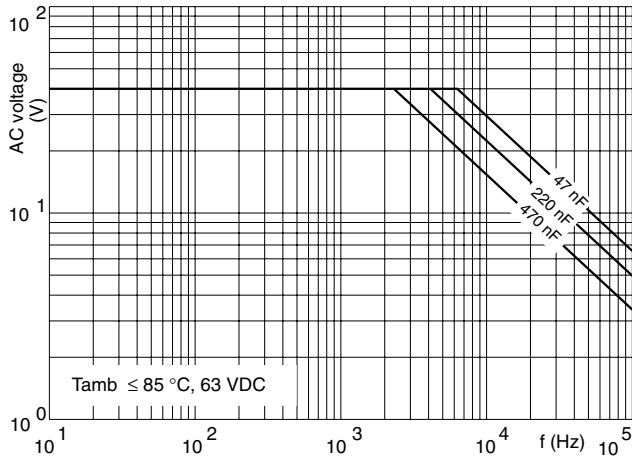
$U_{Rdc} = 250\text{ V}$; $U_{Rac} = 160\text{ V}$

| C (μF) | DIMENSIONS $W_{max} \times H_{max} \times L_{max}$ (mm) | MASS (g) | CATALOG NUMBER 2222 366 AND PACKAGING | | | | | | |
|--|---|---------------------------------------|---|---------------|-----------------------|------|----------------|---------------|------|
| | | | LOOSE IN BOX | | | | AMMOPACK | | |
| | | | It = 4.0 + 1.0/- 0.5 mm | | It = 17.0 ± 4.0 mm | | H = 16.0 mm | | |
| | | | C-TOL = ± 10 % | C-TOL = ± 5 % | SPQ | SPQ | C-TOL = ± 10 % | C-TOL = ± 5 % | SPQ |
| last 5 digits of catalog number | last 5 digits of catalog number | last 5 digits of catalog number | last 5 digits of catalog number | | | | | | |
| Pitch = 7.5+0.4/-0.2 mm; $d_t = 0.60 \pm 0.06\text{ mm}$ | | | | | | | | | |
| 0.018 | 4.0 × 13.0 × 10.0 | 0.4 | 45183 | 46183 | 1000 | 1000 | 43183 | 47183 | 1500 |
| 0.022 | | | 45223 | 46223 | | | 43223 | 47223 | |
| 0.027 | | | 45273 | 46273 | | | 43273 | 47273 | |
| 0.033 | | | 45333 | 46333 | | | 43333 | 47333 | |
| 0.039 | | | 45393 | 46393 | | | 43393 | 47393 | |
| 0.047 | | | 45473 | 46473 | | | 43473 | 47473 | |
| 0.056 | 4.0 × 14.0 × 10.0 | 0.7 | 45563 | 46563 | 1000 | 1000 | 43563 | 47563 | 1500 |
| 0.068 | 4.5 × 14.0 × 10.0 | 0.7 | 45683 | 46683 | 1000 | 1000 | 43683 | 47683 | 1250 |
| 0.082 | 4.5 × 13.0 × 10.0 | 0.5 | 45823 | 46823 | 1000 | 1000 | 43823 | 47823 | 1250 |
| 0.1 | 5.0 × 13.5 × 10.0 | 0.6 | 45104 | 46104 | 1000 | 1000 | 43104 | 47104 | 1000 |
| 0.12 | 5.5 × 14.0 × 10.0 | 0.6 | 45124 | 46124 | 1000 | 1000 | 43124 | 47124 | 1000 |
| 0.15 | 5.5 × 15.5 × 10.0 | 0.7 | 45154 | 46154 | 1000 | 1000 | 43154 | 47154 | 1000 |

$U_{Rdc} = 400\text{ V}$; $U_{Rac} = 220\text{ V}$

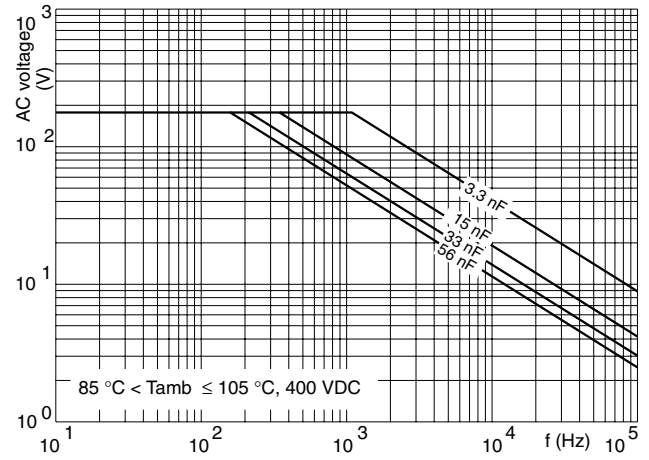
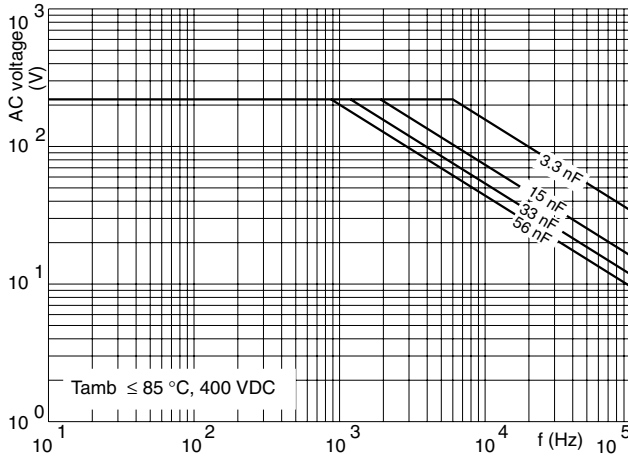
| C (μF) | DIMENSIONS $W_{max} \times H_{max} \times L_{max}$ (mm) | MASS (g) | CATALOG NUMBER 2222 366 AND PACKAGING | | | | | | |
|--|---|---------------------------------------|---|---------------|-----------------------|------|----------------|---------------|------|
| | | | LOOSE IN BOX | | | | AMMOPACK | | |
| | | | It = 4.0 + 1.0/- 0.5 mm | | It = 17.0 ± 4.0 mm | | H = 16.0 mm | | |
| | | | C-TOL = ± 10 % | C-TOL = ± 5 % | SPQ | SPQ | C-TOL = ± 10 % | C-TOL = ± 5 % | SPQ |
| last 5 digits of catalog number | last 5 digits of catalog number | last 5 digits of catalog number | last 5 digits of catalog number | | | | | | |
| Pitch = 7.5+0.4/-0.2 mm; $d_t = 0.60 \pm 0.06\text{ mm}$ | | | | | | | | | |
| 0.0033 | 4.0 × 12.0 × 10.0 | 0.4 | 55332 | 56332 | 1000 | 1000 | 53332 | 57332 | 1500 |
| 0.0039 | | | 55392 | 56392 | | | 53392 | 57392 | |
| 0.0047 | | | 55472 | 56472 | | | 53472 | 57472 | |
| 0.0056 | 4.0 × 13.0 × 10.0 | 0.4 | 55562 | 56562 | 1000 | 1000 | 53562 | 57562 | 1500 |
| 0.0068 | | | 55682 | 56682 | | | 53682 | 57682 | |
| 0.0082 | | | 55822 | 56822 | | | 53822 | 57822 | |
| 0.01 | | | 55103 | 56103 | | | 53103 | 57103 | |
| 0.012 | | | 55123 | 56123 | | | 53123 | 57123 | |
| 0.015 | | | 55153 | 56153 | | | 53153 | 57153 | |
| 0.018 | 4.5 × 13.5 × 10.0 | 0.6 | 55183 | 56183 | 1000 | 1000 | 53183 | 57183 | 1250 |
| 0.022 | 5.0 × 14.0 × 10.0 | 0.7 | 55223 | 56223 | 1000 | 1000 | 53223 | 57223 | 1000 |
| 0.027 | 4.0 × 12.5 × 10.0 | 0.4 | 55273 | 56273 | 1000 | 1000 | 53273 | 57273 | 1500 |
| 0.033 | 4.5 × 13.0 × 10.0 | 0.5 | 55333 | 56333 | 1000 | 1000 | 53333 | 57333 | 1250 |
| 0.039 | 5.0 × 13.5 × 10.0 | 0.5 | 55393 | 56393 | 1000 | 1000 | 53393 | 57393 | 1000 |
| 0.047 | 5.0 × 13.5 × 10.0 | 0.6 | 55473 | 56473 | 1000 | 1000 | 53473 | 57473 | 1000 |
| 0.056 | 5.5 × 14.0 × 10.0 | 0.7 | 55563 | 56563 | 1000 | 1000 | 53563 | 57563 | 1000 |

MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY

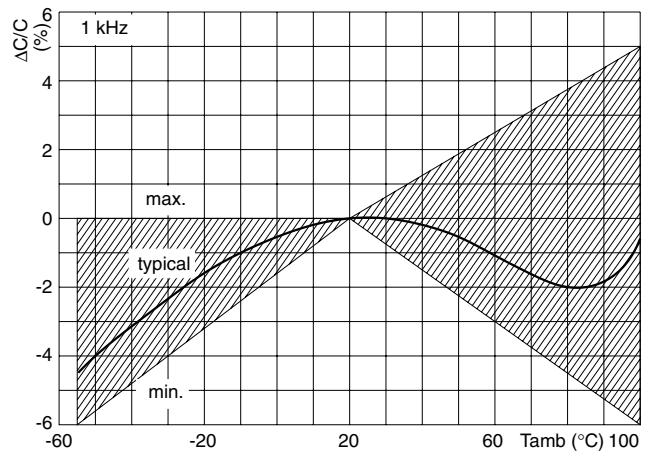
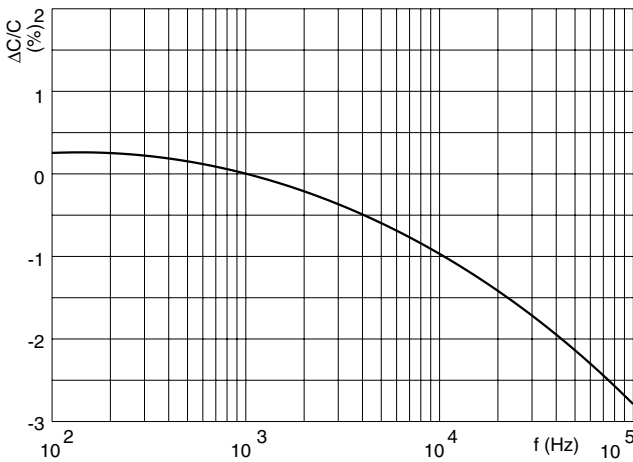




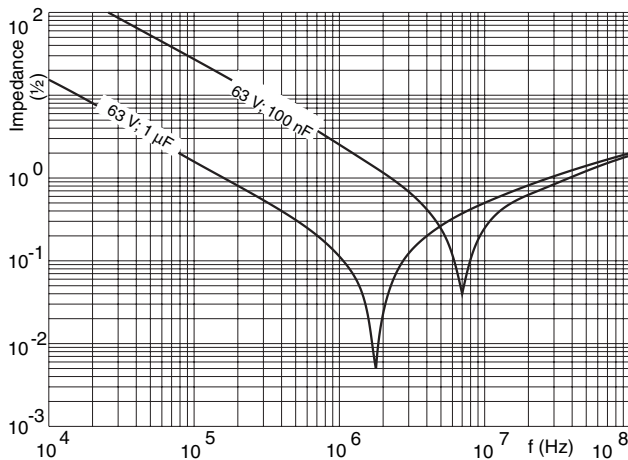
Metallized Polyester Film Capacitors Vishay BCcomponents
MKT Radial Epoxy Lacquered Type



CAPACITANCE



IMPEDANCE





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