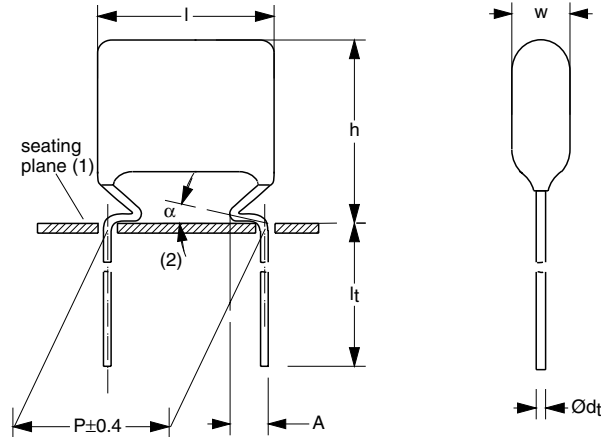


Metallized Polyester Film Capacitors

MKT Radial Epoxy Lacquered Type



Dimensions in mm

- (1) Hole $\varnothing 1.0$ for $d_t = 0.6$ mm
- (2) $0 \leq \alpha < 50^\circ$
- (3) $A = 2.0 \pm 0.5$ mm

FEATURES

Available taped and loose in box
 Lead (Pb)-free product
 RoHS-compliant product



RoHS
COMPLIANT

CAPACITANCE TOLERANCE

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

RATED (DC) VOLTAGE

100 V; 250 V; 400 V; 630 V

RATED (AC) VOLTAGE

63 V; 160 V; 220 V; 250 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)

MATERIALS

Qualified in accordance with UL94 V-0

DETAIL SPECIFICATION

For more detailed data and test requirements contact:
filmcaps.roeselare@vishay.com

APPLICATIONS

Blocking and coupling. Bypass and energy reservoir

MARKING

C-value; tolerance; rated voltage; code for manufacturer;
 manufacturer's type designation; manufacturer's symbol

DIELECTRIC

Polyester film

ELECTRODES

Vacuum deposited aluminum

COATING

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

CONSTRUCTION

Wound mono construction

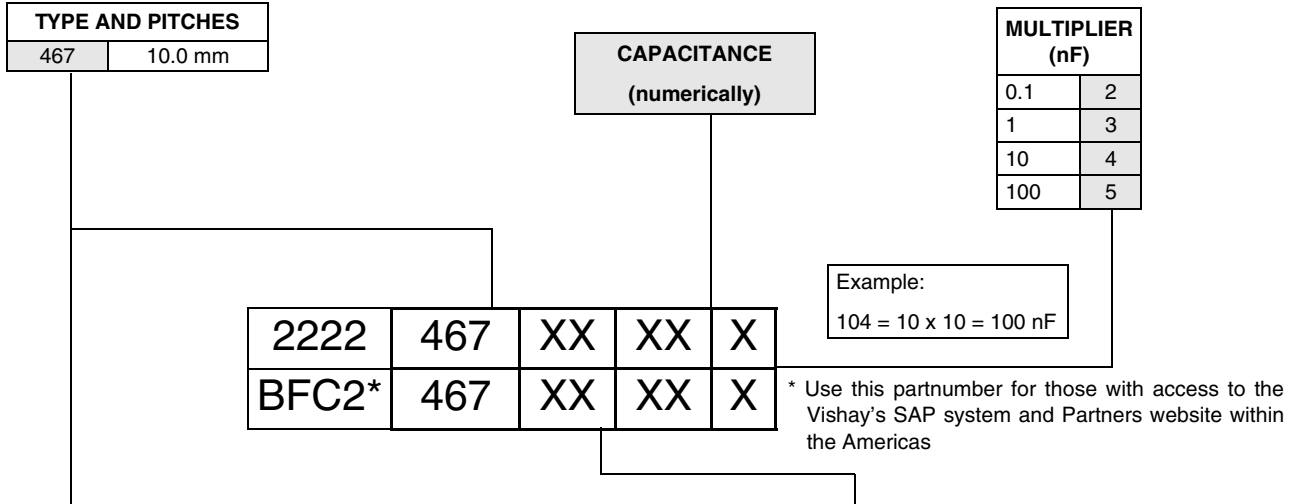
LEADS

Tinned wire

CAPACITANCE RANGE (E12 SERIES)

0.001 to 1.0 μ F

COMPOSITION OF CATALOG NUMBER



| TYPE | PACKAGING | LEAD CONFIGURATION | PREFERRED TYPES | | | | |
|---------|---------------|------------------------------------------------------------------|-----------------|-------|-------|-------|-------|
| | | | C-TOL | 100 V | 250 V | 400 V | 630 V |
| MKT 467 | loose in box | lead length 3.5 + 1.0/- 0.5 mm | ± 10 % | 04 | 16 | 28 | 40 |
| | | | ± 5 % | 05 | 17 | 29 | 41 |
| | | | ON REQUEST | | | | |
| MKT 467 | loose in box | lead length 19.0 ± 4.0 mm | ± 10 % | 51 | 53 | 55 | 57 |
| | | | ± 5 % | 52 | 54 | 56 | 58 |
| | taped on reel | H = 16.0 mm; P ₀ = 12.7 mm; reel diameter = 500 mm | ± 10 % | 06 | 18 | 30 | 42 |
| | | | ± 5 % | 07 | 19 | 31 | 43 |

SPECIFIC REFERENCE DATA

| DESCRIPTION | VALUE | | | |
|----------------------------------------------------------------------|-------------------------|--------------------------|--------------------------|------------------|
| | at 1 kHz | at 10 kHz | at 100 kHz | |
| Tangent of loss angle: | | | | |
| C ≤ 0.1 μF | ≤ 75 × 10 ⁻⁴ | ≤ 120 × 10 ⁻⁴ | ≤ 200 × 10 ⁻⁴ | |
| 0.1 μF < C ≤ 0.47 μF | ≤ 75 × 10 ⁻⁴ | ≤ 120 × 10 ⁻⁴ | ≤ 225 × 10 ⁻⁴ | |
| 0.47 μF < C ≤ 1.0 μF | ≤ 75 × 10 ⁻⁴ | ≤ 120 × 10 ⁻⁴ | - | |
| Rated voltage pulse slope (dU/dt) _R at 100 V (DC) | at 100 V (DC) | at 250 V (DC) | at 400 V (DC) | at 630 V (DC) |
| | 30 V/μs | 120 V/μs | 170 V/μs | 120 V/μs |
| R between leads, for C ≤ 0.33 μF: | | | | |
| at 100 V; 1 minute | | > 30000 MΩ | > 30000 MΩ | |
| at 500 V; 1 minute | | | | > 30000 MΩ |
| RC between leads, for C > 0.33 μF at 100 V; 1 minute | > 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 | 160 V; 1 minute | 400 V; 1 minute | 640 V; 1 minute | 1008 V; 1 minute |
| Withstanding (DC) voltage between leads and case | 200 V; 1 minute | 500 V; 1 minute | 800 V; 1 minute | 1260 V; 1 minute |



Metallized Polyester Film Capacitors Vishay BCcomponents
MKT Radial Epoxy Lacquered Type

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

| C (μF) | DIMENSIONS $W_{max} \times H_{max} \times L_{max}$ (mm) | MASS (g) | CATALOG NUMBER 2222 467 AND PACKAGING | | | | |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------|---------------------------------------------|-------------------|--------------------------------|------|------|
| | | | LOOSE IN BOX | | | | REEL |
| | | | $l_t = 3.5 \pm 0.5\text{ mm}$ | | $l_t = 19.0 \pm 4.0\text{ mm}$ | | SPQ |
| | | | C-tol = $\pm 10\%$ | C-tol = $\pm 5\%$ | SPQ | SPQ | |
| | | | last 5 digits of catalog number | | SPQ | SPQ | SPQ |
| Pitch = $10.0 \pm 0.4\text{ mm}$; $d_t = 0.60 \pm 0.06\text{ mm}$ | | | | | | | |
| 0.056 | 4.0 × 13.0 × 12.5 | 0.4 | 04563 | 05563 | 2000 | 1500 | 1500 |
| 0.068 | | | 04683 | 05683 | | | |
| 0.082 | | | 04823 | 05823 | | | |
| 0.1 | | | 04104 | 05104 | | | |
| 0.12 | 4.3 × 13.3 × 12.5 | 0.5 | 04124 | 05124 | 2000 | 1500 | 1500 |
| 0.15 | 4.0 × 13.0 × 12.5 | 0.4 | 04154 | 05154 | 2000 | 1500 | 1500 |
| 0.18 | 4.2 × 13.2 × 12.5 | 0.4 | 04184 | 05184 | 2000 | 1500 | 1500 |
| 0.22 | 4.5 × 13.6 × 12.5 | 0.5 | 04224 | 05224 | 2000 | 1500 | 1300 |
| 0.27 | 4.2 × 13.2 × 12.5 | 0.4 | 04274 | 05274 | 2000 | 1500 | 1500 |
| 0.33 | 4.6 × 13.6 × 12.5 | 0.5 | 04334 | 05334 | 2000 | 1500 | 1300 |
| 0.39 | 4.0 × 13.0 × 12.5 | 0.4 | 04394 | 05394 | 2000 | 1500 | 1500 |
| 0.47 | 4.2 × 13.2 × 12.5 | 0.4 | 04474 | 05474 | 2000 | 1500 | 1500 |
| 0.56 | 4.6 × 13.6 × 12.5 | 0.5 | 04564 | 05564 | 2000 | 1500 | 1300 |
| 0.68 | 5.0 × 14.0 × 12.5 | 0.5 | 04684 | 05684 | 1500 | 1250 | 1200 |
| 0.82 | 5.5 × 14.5 × 12.5 | 0.6 | 04824 | 05824 | 1500 | 1000 | 1100 |
| 1.0 | 6.0 × 15.0 × 12.5 | 0.6 | 04105 | 05105 | 1250 | 1000 | 1000 |

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

| C (μF) | DIMENSIONS $W_{max} \times H_{max} \times L_{max}$ (mm) | MASS (g) | CATALOG NUMBER 2222 467 AND PACKAGING | | | | |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------|---------------------------------------------|-------------------|--------------------------------|------|------|
| | | | LOOSE IN BOX | | | | REEL |
| | | | $l_t = 3.5 \pm 0.5\text{ mm}$ | | $l_t = 19.0 \pm 4.0\text{ mm}$ | | SPQ |
| | | | C-tol = $\pm 10\%$ | C-tol = $\pm 5\%$ | SPQ | SPQ | |
| | | | last 5 digits of catalog number | | SPQ | SPQ | SPQ |
| Pitch = $10.0 \pm 0.4\text{ mm}$; $d_t = 0.60 \pm 0.06\text{ mm}$ | | | | | | | |
| 0.027 | 4.2 × 13.2 × 12.5 | 0.4 | 16273 | 17273 | 2000 | 1500 | 1500 |
| 0.033 | 4.6 × 13.6 × 12.5 | 0.5 | 16333 | 17333 | 2000 | 1500 | 1300 |
| 0.039 | 4.0 × 13.0 × 12.5 | 0.4 | 16393 | 17393 | 2000 | 1500 | 1500 |
| 0.047 | 4.1 × 13.1 × 12.5 | 0.4 | 16473 | 17473 | 2000 | 1500 | 1500 |
| 0.056 | 4.0 × 13.0 × 12.5 | 0.4 | 16563 | 17563 | 2000 | 1500 | 1500 |
| 0.068 | 4.1 × 13.1 × 12.5 | 0.4 | 16683 | 17683 | 2000 | 1500 | 1500 |
| 0.082 | 4.4 × 13.4 × 12.5 | 0.5 | 16823 | 17823 | 2000 | 1500 | 1500 |
| 0.1 | 4.0 × 13.0 × 12.5 | 0.4 | 16104 | 17104 | 2000 | 1500 | 1500 |
| 0.12 | 4.3 × 13.3 × 12.5 | 0.5 | 16124 | 17124 | 2000 | 1500 | 1500 |
| 0.15 | 4.8 × 13.8 × 12.5 | 0.5 | 16154 | 17154 | 2000 | 1250 | 1300 |
| 0.18 | 5.2 × 14.2 × 12.5 | 0.5 | 16184 | 17184 | 1500 | 1000 | 1200 |
| 0.22 | 5.8 × 14.8 × 12.5 | 0.6 | 16224 | 17224 | 1500 | 1000 | 1100 |

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

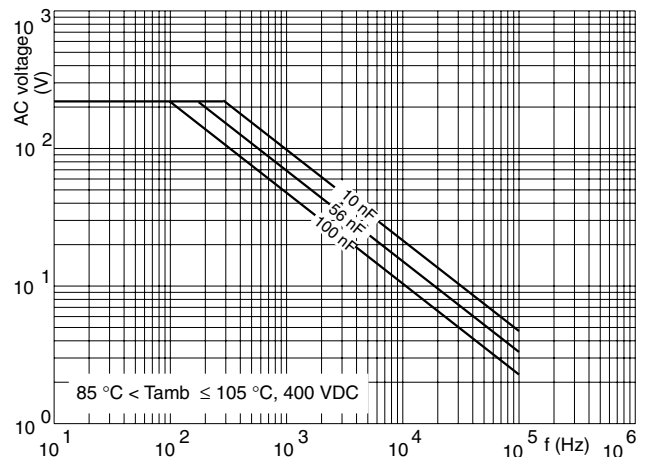
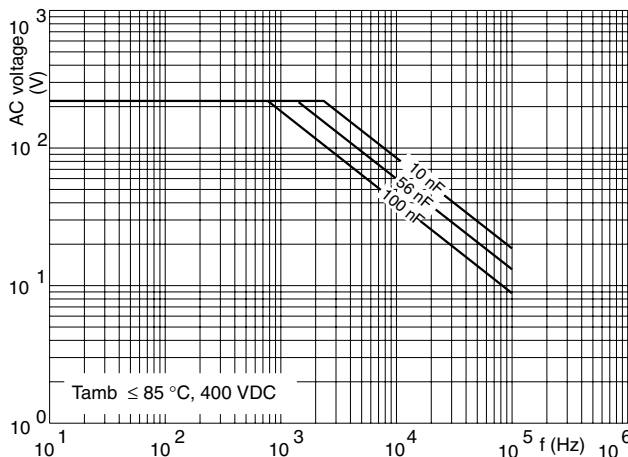
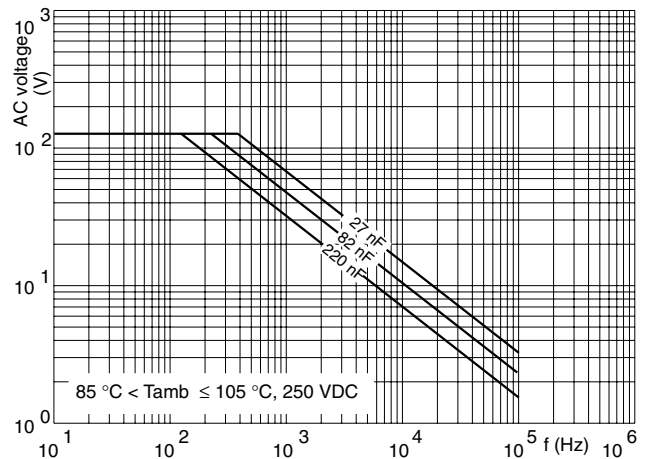
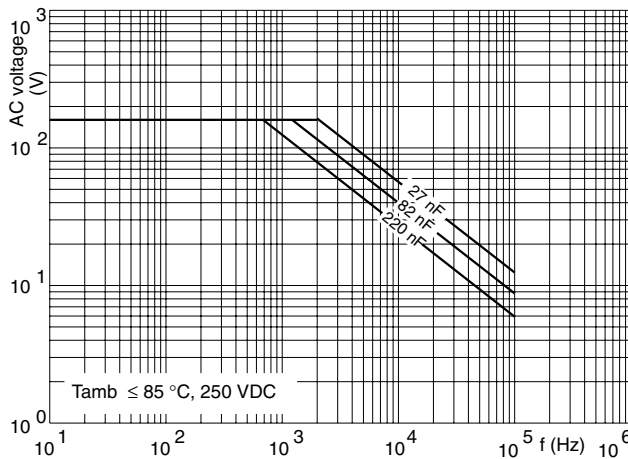
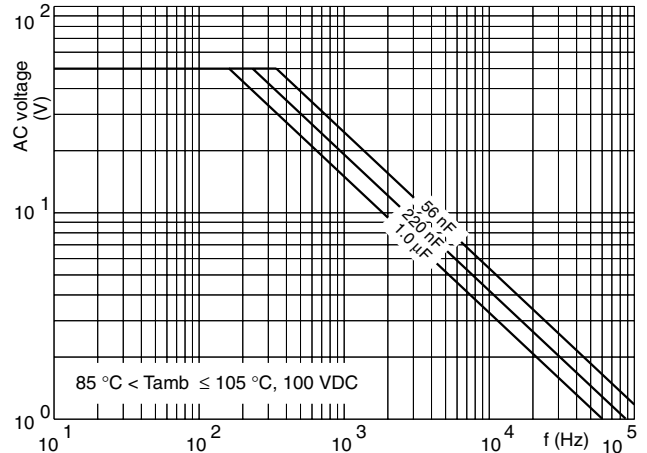
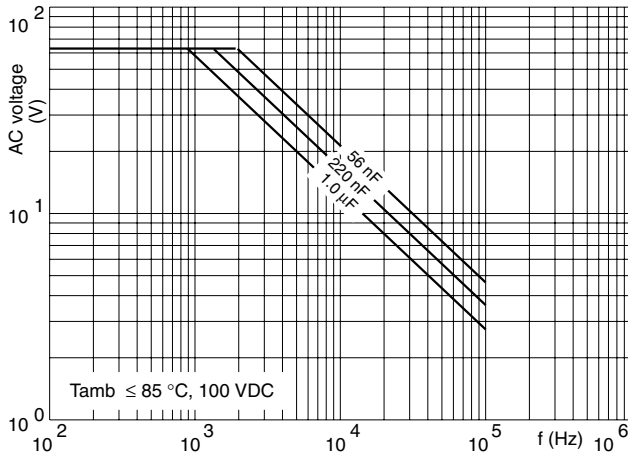
| C (μF) | DIMENSIONS $W_{max} \times H_{max} \times L_{max}$ (mm) | MASS (g) | CATALOG NUMBER 2222 467 AND PACKAGING | | | | |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------|---------------------------------------------|-------------------|--------------------------------|------|------|
| | | | LOOSE IN BOX | | | | REEL |
| | | | $l_t = 3.5 \pm 0.5\text{ mm}$ | | $l_t = 19.0 \pm 4.0\text{ mm}$ | | SPQ |
| | | | C-tol = $\pm 10\%$ | C-tol = $\pm 5\%$ | SPQ | SPQ | |
| | | | last 5 digits of catalog number | | SPQ | SPQ | SPQ |
| Pitch = $10.0 \pm 0.4\text{ mm}$; $d_t = 0.60 \pm 0.06\text{ mm}$ | | | | | | | |
| 0.001 | 4.5 × 13.5 × 12.5 | 0.5 | 28102 | 29102 | 2000 | 1500 | 1300 |
| 0.0012 | | | 28122 | 29122 | | | |
| 0.0015 | | | 28152 | 29152 | | | |
| 0.0018 | | | 28182 | 29182 | | | |
| 0.0022 | 4.0 × 13.0 × 12.5 | 0.4 | 28222 | 29222 | 2000 | 1500 | 1500 |
| 0.0027 | 4.3 × 13.3 × 12.5 | 0.5 | 28272 | 29272 | 2000 | 1500 | 1500 |
| 0.0033 | 4.6 × 13.6 × 12.5 | 0.5 | 28332 | 29332 | 2000 | 1500 | 1300 |
| 0.0039 | 4.0 × 13.0 × 12.5 | 0.4 | 28392 | 29392 | 2000 | 1500 | 1500 |
| 0.0047 | 4.1 × 13.2 × 12.5 | 0.4 | 28472 | 29472 | 2000 | 1500 | 1500 |
| 0.0056 | 4.6 × 13.6 × 12.5 | 0.5 | 28562 | 29562 | 2000 | 1500 | 1300 |
| 0.0068 | 4.2 × 13.2 × 12.5 | 0.4 | 28682 | 29682 | 2000 | 1500 | 1500 |
| 0.0082 | 4.6 × 13.6 × 12.5 | 0.5 | 28822 | 29822 | 2000 | 1500 | 1300 |
| 0.01 | 4.1 × 13.1 × 12.5 | 0.4 | 28103 | 29103 | 2000 | 1500 | 1500 |
| 0.012 | 4.5 × 13.5 × 12.5 | 0.5 | 28123 | 29123 | 2000 | 1500 | 1300 |
| 0.015 | 4.1 × 13.1 × 12.5 | 0.4 | 28153 | 29153 | 2000 | 1500 | 1500 |
| 0.018 | 4.5 × 13.5 × 12.5 | 0.5 | 28183 | 29183 | 2000 | 1500 | 1300 |
| 0.022 | 4.0 × 13.0 × 12.5 | 0.4 | 28223 | 29223 | 2000 | 1500 | 1500 |
| 0.027 | 4.2 × 13.2 × 12.5 | 0.4 | 28273 | 29273 | 2000 | 1500 | 1500 |
| 0.033 | 4.6 × 13.7 × 12.5 | 0.5 | 28333 | 29333 | 2000 | 1500 | 1300 |
| 0.039 | 5.0 × 13.9 × 12.5 | 0.5 | 28393 | 29393 | 1500 | 1250 | 1200 |
| 0.047 | 4.1 × 13.1 × 12.5 | 0.4 | 28473 | 29473 | 2000 | 1500 | 1500 |
| 0.056 | 4.4 × 13.4 × 12.5 | 0.5 | 28563 | 29563 | 2000 | 1500 | 1500 |
| 0.068 | 4.8 × 13.8 × 12.5 | 0.5 | 28683 | 29683 | 2000 | 1250 | 1300 |
| 0.082 | 5.4 × 14.3 × 12.5 | 0.6 | 28823 | 29823 | 1500 | 1000 | 1200 |
| 0.1 | 5.7 × 14.7 × 12.5 | 0.6 | 28104 | 29104 | 1500 | 1000 | 1100 |

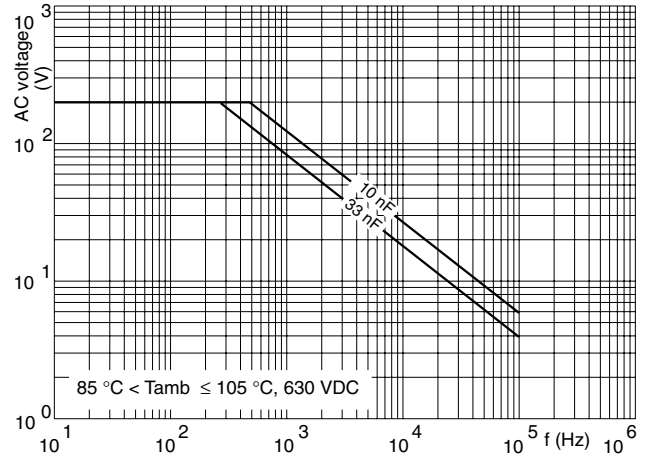
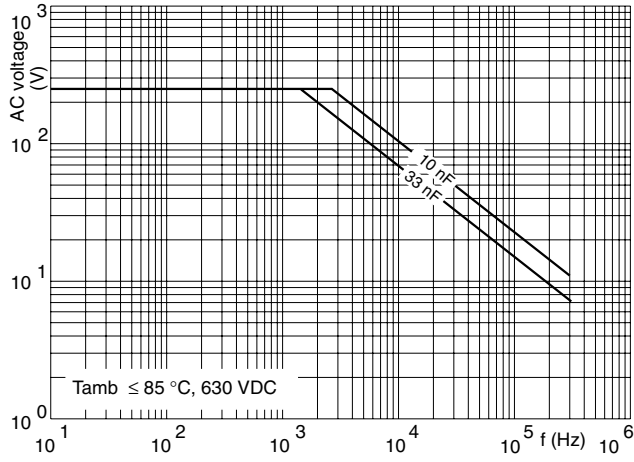
$U_{Rdc} = 630\text{ V}$; $U_{Rac} = 250\text{ V}$

| C (μF) | DIMENSIONS $W_{max} \times H_{max} \times L_{max}$ (mm) | MASS (g) | CATALOG NUMBER 2222 467 AND PACKAGING | | | | |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------|---------------------------------------------|-------------------|--------------------------------|------|------|
| | | | LOOSE IN BOX | | | | REEL |
| | | | $l_t = 3.5 \pm 0.5\text{ mm}$ | | $l_t = 19.0 \pm 4.0\text{ mm}$ | | SPQ |
| | | | C-tol = $\pm 10\%$ | C-tol = $\pm 5\%$ | SPQ | SPQ | |
| | | | last 5 digits of catalog number | | SPQ | SPQ | SPQ |
| Pitch = $10.0 \pm 0.4\text{ mm}$; $d_t = 0.60 \pm 0.06\text{ mm}$ | | | | | | | |
| 0.01 | 4.1 × 13.1 × 12.5 | 0.4 | 40103 | 41103 | 2000 | 1500 | 1500 |
| 0.012 | 4.5 × 13.5 × 12.5 | 0.5 | 40123 | 41123 | 2000 | 1500 | 1300 |
| 0.015 | 4.9 × 13.9 × 12.5 | 0.5 | 40153 | 41153 | 2000 | 1250 | 1200 |
| 0.018 | 5.4 × 14.4 × 12.5 | 0.6 | 40183 | 41183 | 1500 | 1000 | 1100 |
| 0.022 | 4.8 × 13.8 × 12.5 | 0.5 | 40223 | 41223 | 2000 | 1250 | 1300 |
| 0.027 | 5.3 × 14.3 × 12.5 | 0.6 | 40273 | 41273 | 2000 | 1000 | 1200 |
| 0.033 | 5.9 × 14.9 × 12.5 | 0.6 | 40333 | 41333 | 1500 | 1000 | 1100 |

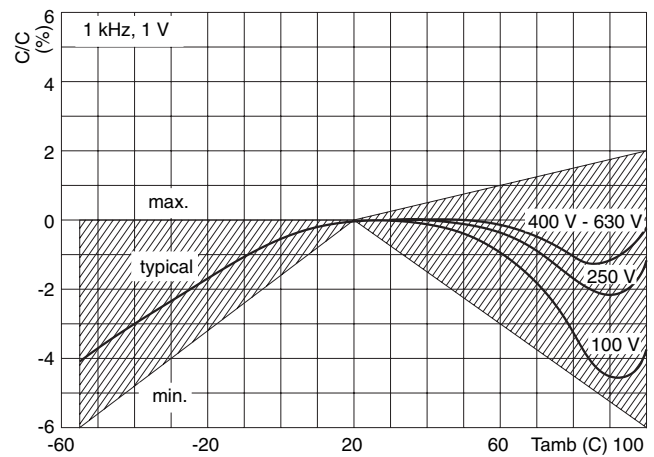
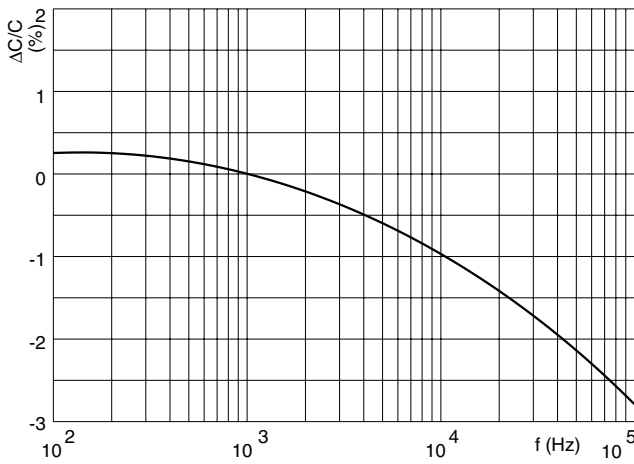


MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY

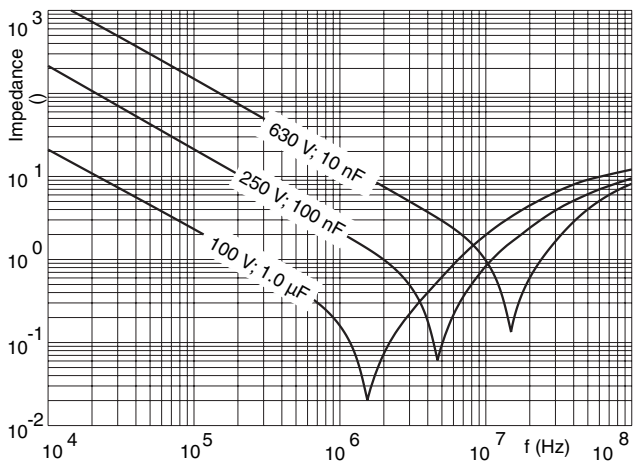




CAPACITANCE



IMPEDANCE





Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.