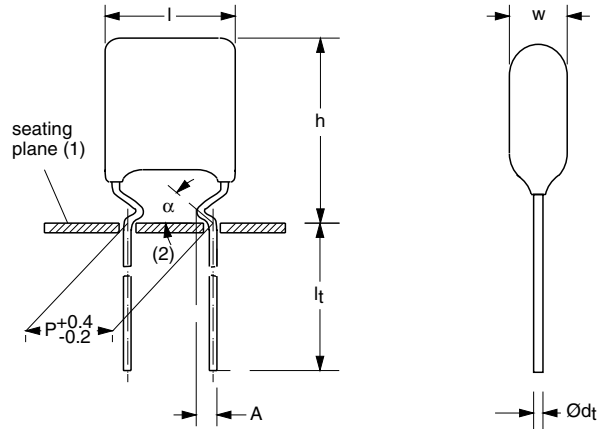


# Metallized Polyester Film Capacitors

## 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  $\mu$ 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:

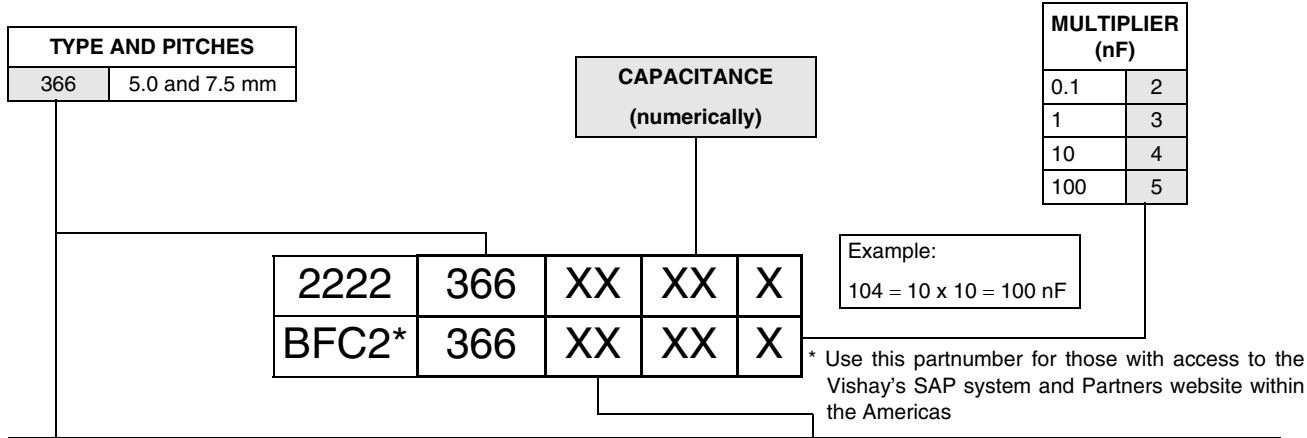
[filmcaps.roeselare@vishay.com](mailto:filmcaps.roeselare@vishay.com)



**RoHS**  
COMPLIANT



## COMPOSITION OF CATALOG NUMBER



| TYPE                  | PACKAGING    | LEAD CONFIGURATION                                     | ON REQUEST |      |       |       |       |
|-----------------------|--------------|--|------------|------|-------|-------|-------|
|                       |              |  | C-TOL      | 63 V | 100 V | 250 V | 400 V |
| <b>Pitch = 5.0 mm</b> |              |  |            |      |       |       |       |
| 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    | –     | –     |
| <b>Pitch = 7.5 mm</b> |              |  |            |      |       |       |       |
| 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;<br>H = 16.0 mm; P <sub>0</sub> = 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 <sup>-4</sup> | ≤ 130 × 10 <sup>-4</sup> | ≤ 225 × 10 <sup>-4</sup> |                 |
| 0.47 μF < C ≤ 1.0 μF   | ≤ 75 × 10 <sup>-4</sup> | ≤ 130 × 10 <sup>-4</sup> | –                        |                 |
| Rated voltage pulse slope (dU/dt) <sub>R</sub>                       | 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<br>( $\mu F$ )   | DIMENSIONS<br>$W_{max} \times H_{max} \times L_{max}$<br>(mm) | MASS<br>(g)                           | CATALOG NUMBER 2222 366 ..... AND PACKAGING |               |                       |                                       |                |               |      |
|--|---|---------------------------------------|---|---------------|-----------------------|---------------------------------------|----------------|---------------|------|
|  |   |                                       | LOOSE IN BOX                                |               |                       |                                       | AMMOPACK       |               |      |
|  |   |                                       | It =<br>4.0 + 1.0/- 0.5 mm                  |               | It =<br>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<br>catalog<br>number                                  |   | last 5 digits of<br>catalog<br>number |   |               |                       | last 5 digits of<br>catalog<br>number |                |               |      |
| <b>Pitch = 5.0 + 0.4/- 0.2 mm; <math>d_t = 0.50 \pm 0.05</math> mm</b> |   |                                       |   |               |                       |                                       |                |               |      |
| 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                                  |                |               |      |
| <b>Pitch = 7.5 + 0.4/- 0.2 mm; <math>d_t = 0.60 \pm 0.06</math> mm</b> |   |                                       |   |               |                       |                                       |                |               |      |
| 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<br>( $\mu\text{F}$ )  | DIMENSIONS<br>$W_{max} \times H_{max} \times L_{max}$<br>(mm) | MASS<br>(g) | CATALOG NUMBER 2222 366 ..... AND PACKAGING |                                       |                       |      |                                       |                                       |      |
|---|---|-------------|---|---------------------------------------|-----------------------|------|---------------------------------------|---------------------------------------|------|
|   |   |             | LOOSE IN BOX                                |                                       |                       |      | AMMOPACK                              |                                       |      |
|   |   |             | It =<br>4.0 + 1.0/- 0.5 mm                  |                                       | It =<br>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<br>catalog<br>number       | last 5 digits of<br>catalog<br>number |                       |      | last 5 digits of<br>catalog<br>number | last 5 digits of<br>catalog<br>number |      |
| <b>Pitch = 5.0 + 0.4/- 0.2 mm; <math>d_t = 0.50 \pm 0.05\text{ mm}</math></b> |   |             |   |                                       |                       |      |                                       |                                       |      |
| 0.01  | 4.5 × 12.5 × 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 × 12.5 × 7.3  | 0.3         | 85473                                       | 86473                                 | 1000                  | 1000 |                                       |                                       |      |
| 0.056   |   |             | 85563                                       | 86563                                 |                       |      |                                       |                                       |      |
| 0.068   |   |             | 85683                                       | 86683                                 |                       |      |                                       |                                       |      |
| 0.082   | 4.5 × 13.0 × 7.3  | 0.3         | 85823                                       | 86823                                 | 1000                  | 1000 |                                       |                                       |      |
| 0.1   | 4.5 × 13.5 × 7.3  | 0.4         | 85104                                       | 86104                                 | 1000                  | 1000 |                                       |                                       |      |
| 0.12  |   |             | 85124                                       | 86124                                 |                       |      |                                       |                                       |      |
| 0.15  |   |             | 85154                                       | 86154                                 |                       |      |                                       |                                       |      |
| 0.18  |   |             | 85184                                       | 86184                                 |                       |      |                                       |                                       |      |
| 0.22  | 4.5 × 13.5 × 7.3  | 0.4         | 85224                                       | 86224                                 | 1000                  | 1000 |                                       |                                       |      |
| 0.27  | 4.5 × 14.0 × 7.3  | 0.4         | 85274                                       | 86274                                 | 1000                  | 1000 |                                       |                                       |      |
| <b>Pitch = 7.5 + 0.4/- 0.2 mm; <math>d_t = 0.60 \pm 0.06\text{ mm}</math></b> |   |             |   |                                       |                       |      |                                       |                                       |      |
| 0.039   | 4.0 × 12.0 × 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 × 13.0 × 10.0   | 0.4         | 25104                                       | 26104                                 | 1000                  | 1000 | 23104                                 | 27104                                 | 1500 |
| 0.12  | 4.5 × 13.0 × 10.5   | 0.5         | 25124                                       | 26124                                 | 1000                  | 1000 | 23124                                 | 27124                                 | 1250 |
| 0.15  | 5.0 × 13.0 × 10.5   | 0.6         | 25154                                       | 26154                                 | 1000                  | 1000 | 23154                                 | 27154                                 | 1000 |
| 0.18  | 5.0 × 13.5 × 10.5   | 0.6         | 25184                                       | 26184                                 | 1000                  | 1000 | 23184                                 | 27184                                 | 1000 |
| 0.22  | 5.5 × 13.5 × 10.5   | 0.7         | 25224                                       | 26224                                 | 1000                  | 1000 | 23224                                 | 27224                                 | 1000 |
| 0.27  | 6.0 × 14.5 × 10.5   | 0.7         | 25274                                       | 26274                                 | 1000                  | 1000 | 23274                                 | 27274                                 | 1000 |
| 0.33  | 6.0 × 15.0 × 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

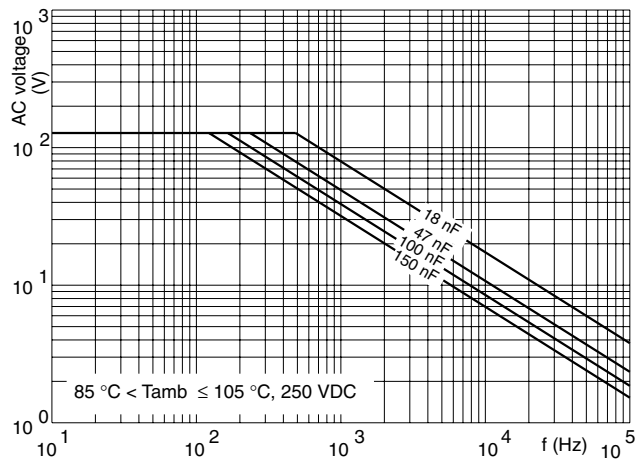
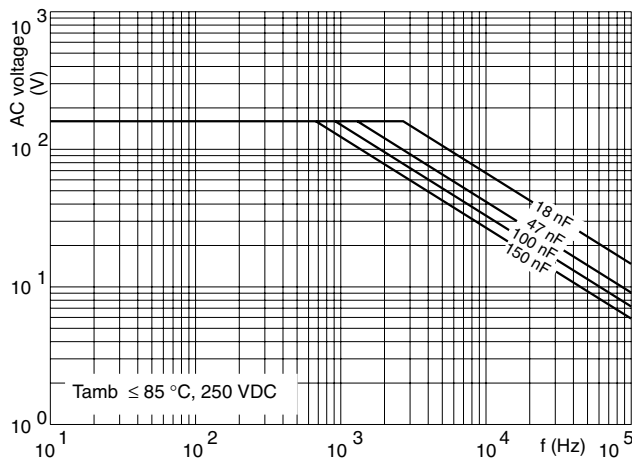
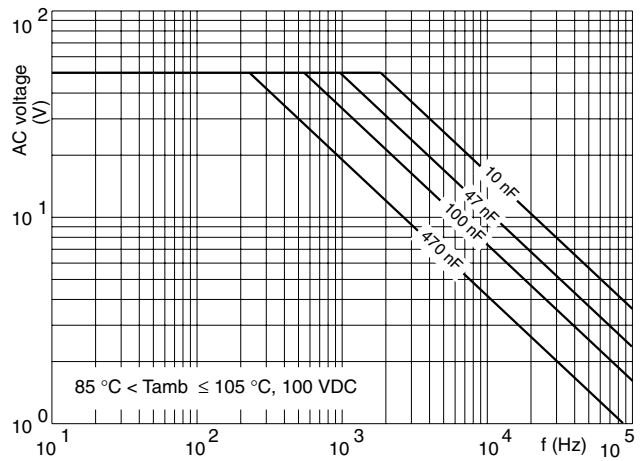
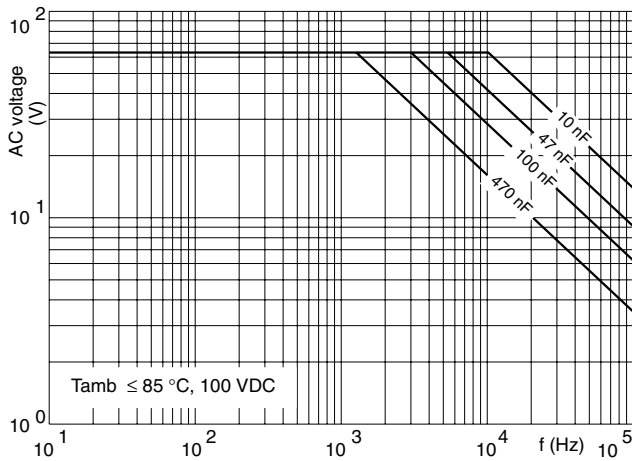
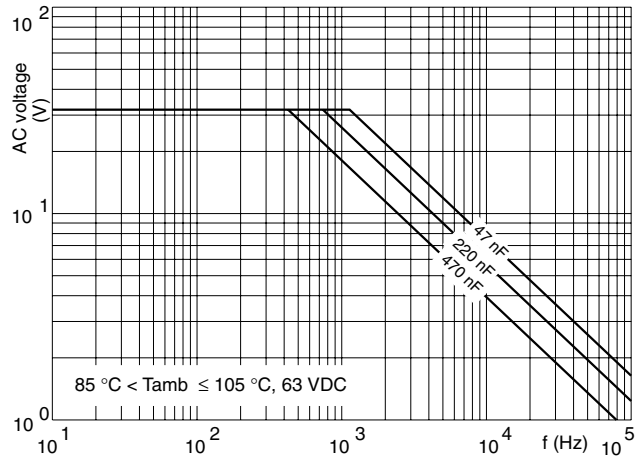
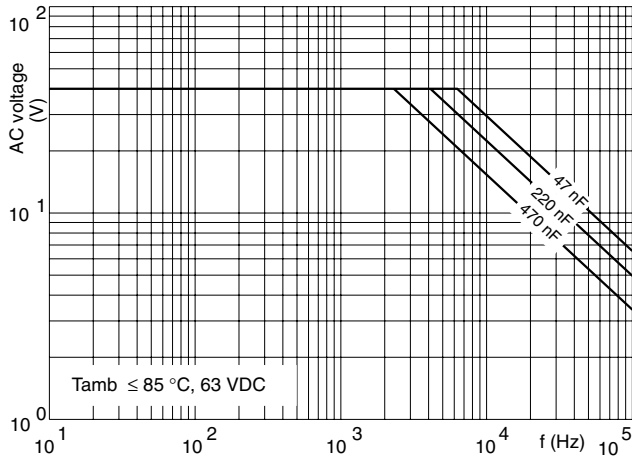
$U_{Rdc} = 250\text{ V}$ ;  $U_{Rac} = 160\text{ V}$

| C<br>( $\mu\text{F}$ )                                   | DIMENSIONS<br>$W_{max} \times H_{max} \times L_{max}$<br>(mm) | MASS<br>(g)                           | CATALOG NUMBER 2222 366 ..... AND PACKAGING |               |                       |      |                |               |      |
|--|---|---------------------------------------|---|---------------|-----------------------|------|----------------|---------------|------|
|  |   |                                       | LOOSE IN BOX                                |               |                       |      | AMMOPACK       |               |      |
|  |   |                                       | It =<br>4.0 + 1.0/- 0.5 mm                  |               | It =<br>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<br>catalog<br>number                    | last 5 digits of<br>catalog<br>number                         | last 5 digits of<br>catalog<br>number | last 5 digits of<br>catalog<br>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 |

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

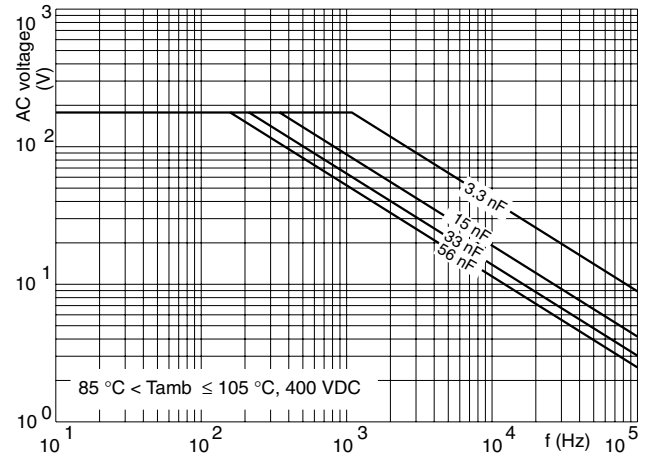
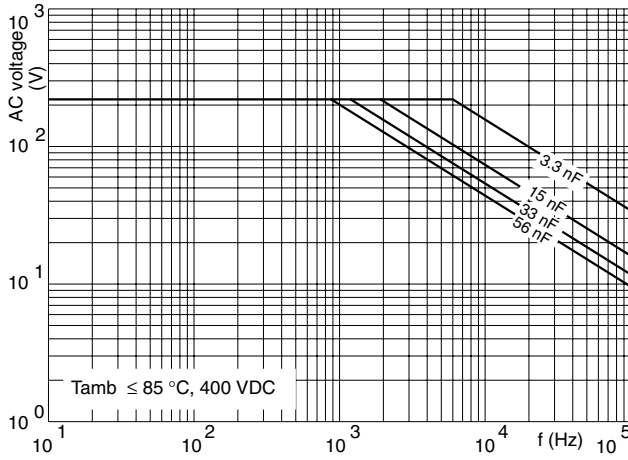
| C<br>( $\mu\text{F}$ )                                   | DIMENSIONS<br>$W_{max} \times H_{max} \times L_{max}$<br>(mm) | MASS<br>(g)                           | CATALOG NUMBER 2222 366 ..... AND PACKAGING |               |                       |      |                |               |      |
|--|---|---------------------------------------|---|---------------|-----------------------|------|----------------|---------------|------|
|  |   |                                       | LOOSE IN BOX                                |               |                       |      | AMMOPACK       |               |      |
|  |   |                                       | It =<br>4.0 + 1.0/- 0.5 mm                  |               | It =<br>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<br>catalog<br>number                    | last 5 digits of<br>catalog<br>number                         | last 5 digits of<br>catalog<br>number | last 5 digits of<br>catalog<br>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

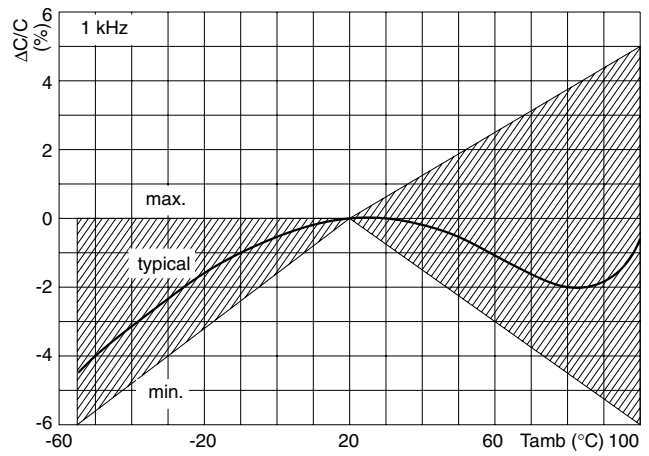
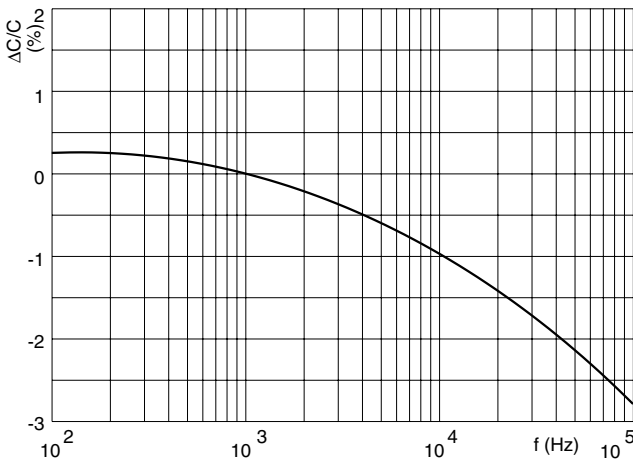




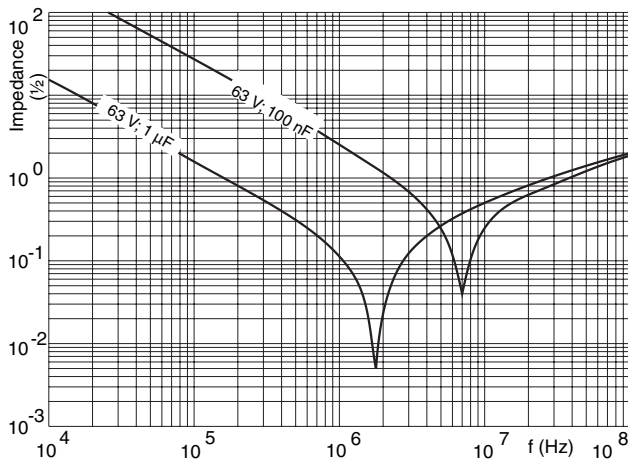
Metallized Polyester Film Capacitors Vishay BCcomponents  
MKT Radial Epoxy Lacquered Type



CAPACITANCE



IMPEDANCE





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