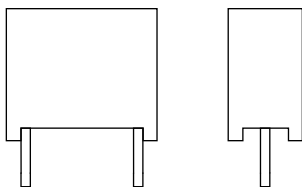




## Interference Suppression Film Capacitors MKT Radial Potted Type



### FEATURES

- Material categorization:  
For definitions of compliance please see  
[www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

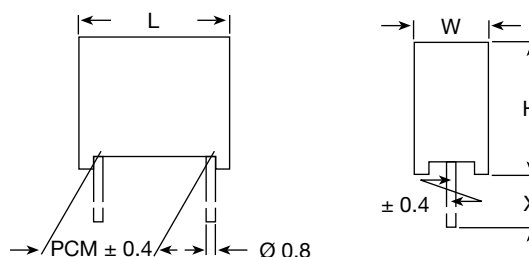


**RoHS**  
COMPLIANT

### QUICK REFERENCE DATA

|                  |                                                                                        |
|------------------|----------------------------------------------------------------------------------------|
| Rated AC voltage | 250 V <sub>AC</sub> , 50 Hz/60 Hz                                                      |
| Terminals        | Radial tinned wire                                                                     |
| Coating          | Plastic case, epoxy resin sealed, flame retardant, UL-class 94 V-0                     |
| Technical data   | Please refer to <a href="http://www.vishay.com/doc?26525">www.vishay.com/doc?26525</a> |

### DIMENSION in millimeters AND ORDERING CODE



| LEAD LENGTH X (mm) | ORDERING CODE <sup>(1)</sup> |
|--------------------|------------------------------|
| 4 <sup>-1</sup>    | F1710-...-1004               |
| 6 <sup>-1</sup>    | F1710-...-1000               |
| 15 <sup>-1</sup>   | F1710-...-1015               |
| 30 <sup>+5</sup>   | F1710-...-1030               |

#### Note

- <sup>(1)</sup> These capacitors can be delivered on continuous tape and reel (see [www.vishay.com/doc?28139](http://www.vishay.com/doc?28139)).  
The ordering code is then: F1710-...-1900 at H = 16 mm, F1710-...-1901 at H = 18.5 mm.

### ELECTRICAL DATA AND ORDERING INFORMATION

| U <sub>RAC</sub><br>(V) | CAP.<br>(μF) | TOL.<br>(%) | PITCH<br>(mm) | BOX<br>NO. | DIMENSIONS<br>W x H x L<br>(mm)<br>(+ 0.2 mm/- 0.4 mm) | WEIGHT<br>LEAD LENGTH<br>≤ 6 <sup>-1</sup> mm<br>(g) | QUANTITY<br>PACKAGE<br>LEAD LENGTH<br>≤ 6 <sup>-1</sup> mm<br>(pcs) | ORDERING CODE <sup>(2)</sup> |
|-------------------------|--------------|-------------|---------------|------------|--------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|------------------------------|
| 250                     | 0.0010       | ± 20        | 15            | 05         | 5.3 x 10.3 x 17.8                                      | 1.4                                                  | 750                                                                 | F1710-210-10 ..              |
|                         | 0.0012       | ± 20        | 15            | 05         | 5.3 x 10.3 x 17.8                                      | 1.4                                                  | 750                                                                 | F1710-212-10 ..              |
|                         | 0.0015       | ± 20        | 15            | 05         | 5.3 x 10.3 x 17.8                                      | 1.4                                                  | 750                                                                 | F1710-215-10 ..              |
|                         | 0.0018       | ± 20        | 15            | 05         | 5.3 x 10.3 x 17.8                                      | 1.4                                                  | 750                                                                 | F1710-218-10 ..              |
|                         | 0.0022       | ± 20        | 15            | 05         | 5.3 x 10.3 x 17.8                                      | 1.4                                                  | 750                                                                 | F1710-222-10 ..              |
|                         | 0.0027       | ± 20        | 15            | 05         | 5.3 x 10.3 x 17.8                                      | 1.4                                                  | 750                                                                 | F1710-227-10 ..              |
|                         | 0.0033       | ± 20        | 15            | 05         | 5.3 x 10.3 x 17.8                                      | 1.4                                                  | 750                                                                 | F1710-233-10 ..              |
|                         | 0.0039       | ± 20        | 15            | 05         | 5.3 x 10.3 x 17.8                                      | 1.4                                                  | 750                                                                 | F1710-239-10 ..              |
|                         | 0.0047       | ± 20        | 15            | 05         | 5.3 x 10.3 x 17.8                                      | 1.4                                                  | 750                                                                 | F1710-247-10 ..              |
|                         | 0.0056       | ± 20        | 15            | 05         | 5.3 x 10.3 x 17.8                                      | 1.4                                                  | 750                                                                 | F1710-256-10 ..              |



## ELECTRICAL DATA AND ORDERING INFORMATION

| U <sub>RAC</sub><br>(V) | CAP.<br>(μF)  | TOL.<br>(%) | PITCH<br>(mm) | BOX<br>NO. | DIMENSIONS<br>W x H x L<br>(mm)<br>(+ 0.2 mm/- 0.4 mm) | WEIGHT<br>LEAD LENGTH<br>≤ 6 <sup>-1</sup> mm<br>(g) | QUANTITY<br>PACKAGE<br>LEAD LENGTH<br>≤ 6 <sup>-1</sup> mm<br>(pcs) | ORDERING CODE <sup>(2)</sup> |
|-------------------------|---------------|-------------|---------------|------------|--------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|------------------------------|
| 250                     | <b>0.0068</b> | ± 20        | <b>15</b>     | <b>05</b>  | <b>5.3 x 10.3 x 17.8</b>                               | <b>1.4</b>                                           | <b>750</b>                                                          | <b>F1710-268-10 ..</b>       |
|                         | 0.0082        | ± 20        | 15            | 06         | 6.3 x 12.3 x 17.8                                      | 2.0                                                  | 500                                                                 | F1710-282-10 ..              |
|                         | <b>0.010</b>  | ± 20        | <b>15</b>     | <b>06</b>  | <b>6.3 x 12.3 x 17.8</b>                               | <b>2.0</b>                                           | <b>500</b>                                                          | <b>F1710-310-10 ..</b>       |
|                         | 0.012         | ± 20        | 15            | 07         | 7.3 x 13.3 x 17.8                                      | 2.4                                                  | 450                                                                 | F1710-312-10 ..              |
|                         | <b>0.015</b>  | ± 20        | <b>15</b>     | <b>07</b>  | <b>7.3 x 13.3 x 17.8</b>                               | <b>2.4</b>                                           | <b>450</b>                                                          | <b>F1710-315-10 ..</b>       |
|                         | 0.018         | ± 20        | 15            | 28         | 8.3 x 17.3 x 17.8                                      | 3.4                                                  | 300                                                                 | F1710-318-10 ..              |
|                         | <b>0.022</b>  | ± 20        | <b>15</b>     | <b>28</b>  | <b>8.3 x 17.3 x 17.8</b>                               | <b>3.4</b>                                           | <b>300</b>                                                          | <b>F1710-322-10 ..</b>       |
|                         | 0.027         | ± 20        | 22.5          | 09         | 6.3 x 14.3 x 26.3                                      | 3.5                                                  | 260                                                                 | F1710-327-10 ..              |
|                         | <b>0.033</b>  | ± 20        | <b>22.5</b>   | <b>09</b>  | <b>6.3 x 14.3 x 26.3</b>                               | <b>3.5</b>                                           | <b>260</b>                                                          | <b>F1710-333-10 ..</b>       |
|                         | 0.039         | ± 20        | 22.5          | 11         | 7.3 x 15.3 x 26.3                                      | 3.9                                                  | 235                                                                 | F1710-339-10 ..              |
|                         | <b>0.047</b>  | ± 20        | <b>22.5</b>   | <b>12</b>  | <b>8.3 x 16.3 x 26.3</b>                               | <b>4.8</b>                                           | <b>200</b>                                                          | <b>F1710-347-10 ..</b>       |
|                         | 0.056         | ± 20        | 22.5          | 13         | 10.3 x 18.3 x 26.3                                     | 6.6                                                  | 170                                                                 | F1710-356-10 ..              |
|                         | <b>0.068</b>  | ± 20        | <b>22.5</b>   | <b>13</b>  | <b>10.3 x 18.3 x 26.3</b>                              | <b>6.6</b>                                           | <b>170</b>                                                          | <b>F1710-368-10 ..</b>       |
|                         | 0.082         | ± 20        | 27.5          | 14         | 11.0 x 20.3 x 31.3                                     | 9.4                                                  | 125                                                                 | F1710-382-10 ..              |
|                         | <b>0.100</b>  | ± 20        | <b>27.5</b>   | <b>14</b>  | <b>11.0 x 21.0 x 31.0</b>                              | <b>9.4</b>                                           | <b>125</b>                                                          | <b>F1710-410-10 ..</b>       |

## Notes

- Preferred values in bold print.

(1) For further information about packaging quantities with different lead length and/or taped versions please see [www.vishay.com/doc?27608](http://www.vishay.com/doc?27608). Use box no. as reference.

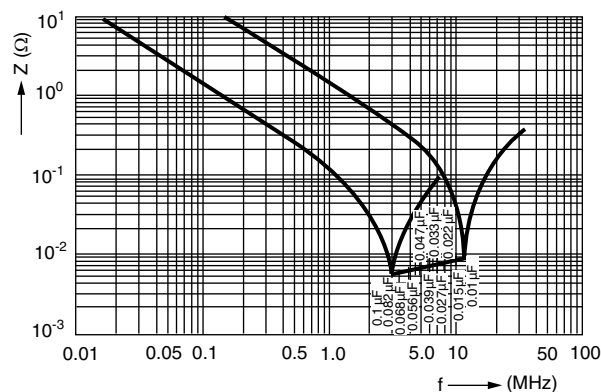
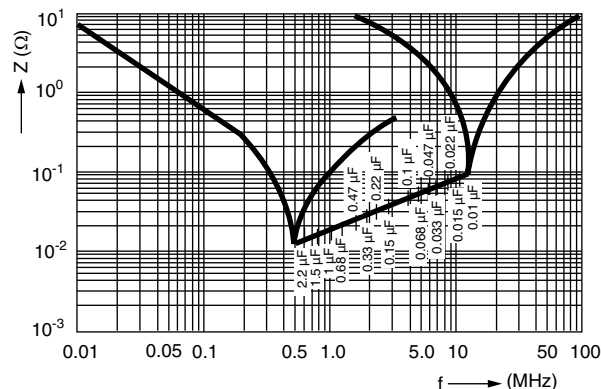
(2) These capacitors can be delivered on continuous tape and reel (see [www.vishay.com/doc?28139](http://www.vishay.com/doc?28139)). The ordering code is then: F1710-...-1900 at H = 16 mm, F1710-...-1901 at H = 18.5 mm.

## APPROVALS

| COUNTRY                                                                                                                                                         | SPECIFICATION                                       | ELECTRICAL VALUES                              | APPROVAL REFERENCE  | APPROVAL MARK   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------|---------------------|-----------------|
| U.S.A.<br>(for AC 250 V)                                                                                                                                        | UL 1283<br>UL 1414                                  | 0.01 μF X to 0.1 μF X<br>0.01 μF X to 0.1 μF X | E 76297<br>E 100682 |                 |
| Canada<br>(for AC 250 V)                                                                                                                                        | C 22.2 No. 1-M 1994                                 | 1000 pF Y2 to 0.1 μF Y2                        | 2167188             |                 |
| <b>CB TEST-CERTIFICATE (for AC 275 V)</b>                                                                                                                       |                                                     | 1000 pF Y2 to 0.1 μF Y2                        | DE 1-8790           |                 |
| Germany                                                                                                                                                         | EN 132 400; 1999<br>IEC 60384-14, 2nd edition, 1995 | 1000 pF Y2 to 0.1 μF X2                        | 94613               |                 |
| This approval mark together with the CB-certificate replace all national approval marks of the following countries (they have already signed the CB-agreement): |                                                     |                                                |                     |                 |
| Austria                                                                                                                                                         | Belgium                                             | Denmark                                        | Finland             | Sweden          |
| France                                                                                                                                                          | Germany                                             | Ireland                                        | Italy               | Switzerland     |
| Netherlands                                                                                                                                                     | Israel                                              | Portugal                                       | Spain               | Great Britain   |
| Japan                                                                                                                                                           | Norway                                              | China                                          | Poland              | Czech. Republic |
| Singapore                                                                                                                                                       | Rep. of Korea                                       | Hungary                                        | Iceland             | Slovenia        |



**IMPEDANCE (Z) AS A FUNCTION OF FREQUENCY (f) AT  $T_a = 20^\circ\text{C}$  (AVERAGE)**



Measurement with lead length 6 mm.



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