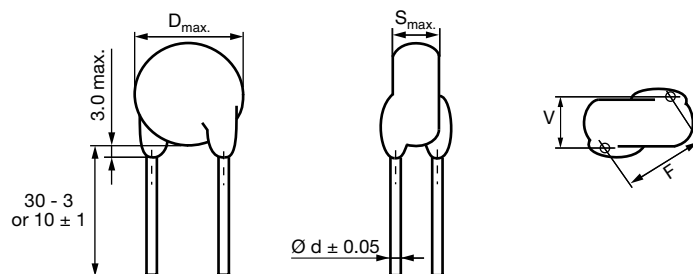




**DIMENSIONS** in millimeters

**TECHNICAL DATA**

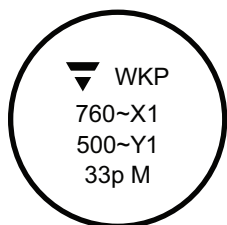
| CAPACITANCE <sup>(2)</sup><br>C (pF) | CAPACITANCE<br>TOLERANCE | BODY<br>DIAMETER<br>D <sub>MAX.</sub> (mm) | BODY<br>THICKNESS<br>S <sub>MAX.</sub> (mm) | LEAD<br>SPACING <sup>(1)</sup><br>F (mm)<br>± 1 mm | LEAD<br>DIAMETER <sup>(1)</sup><br>d (mm)<br>± 0.05 mm | WIDTH <sup>(1)</sup><br>V (mm)<br>± 0.5 mm | PART NUMBER                                  |
|--------------------------------------|--------------------------|--------------------------------------------|---------------------------------------------|----------------------------------------------------|--------------------------------------------------------|--------------------------------------------|----------------------------------------------|
|                                      |                          |                                            |                                             |                                                    |                                                        |                                            | MISSING DIGITS<br>SEE ORDERING<br>CODE BELOW |
| N750 (U2J)                           |                          |                                            |                                             |                                                    |                                                        |                                            |                                              |
| 33                                   | ± 10 %,<br>± 20 %        | 8.0                                        | 6.0                                         | 12.5                                               | 0.6                                                    | 1.9                                        | WKP330#CP###KR                               |
| Y5S (2C3)                            |                          |                                            |                                             |                                                    |                                                        |                                            |                                              |
| 47                                   | ± 10 %,<br>± 20 %        | 8.0                                        | 6.0                                         | 12.5                                               | 0.6                                                    | 2.3                                        | WKP470#CP###KR                               |
| 68                                   |                          |                                            |                                             |                                                    |                                                        |                                            | WKP680#CP###KR                               |
| 100                                  |                          |                                            |                                             |                                                    |                                                        |                                            | WKP101#CP###KR                               |
| Y5T (2D3)                            |                          |                                            |                                             |                                                    |                                                        |                                            |                                              |
| 150                                  | ± 10 %,<br>± 20 %        | 8.0                                        | 6.0                                         | 12.5                                               | 0.6                                                    | 2.3                                        | WKP151#CP###KR                               |
| 220                                  |                          |                                            |                                             |                                                    |                                                        |                                            | WKP221#CP###KR                               |
| Y5U (2E3)                            |                          |                                            |                                             |                                                    |                                                        |                                            |                                              |
| 330                                  | ± 10 %,<br>± 20 %        | 8.0                                        | 6.0                                         | 12.5                                               | 0.6                                                    | 2.5                                        | WKP331#CP###KR                               |
| 470                                  |                          |                                            |                                             |                                                    |                                                        |                                            | WKP471#CP###KR                               |
| 680                                  |                          | 9.0                                        |                                             |                                                    |                                                        |                                            | WKP681#CP###KR                               |
| 1000                                 |                          | 10.0                                       |                                             |                                                    | 0.8                                                    | 2.7                                        | WKP102#CP###KR                               |
| 1500                                 |                          | 12.0                                       |                                             |                                                    |                                                        |                                            | WKP152#CP###KR                               |
| 2200                                 |                          | 13.0                                       |                                             |                                                    |                                                        |                                            | WKP222#CP###KR                               |
| 3300                                 |                          | 15.0                                       |                                             |                                                    |                                                        |                                            | WKP332#CP###KR                               |
| 3900                                 |                          | 16.0                                       |                                             |                                                    |                                                        |                                            | WKP392#CP###KR                               |
| 4700                                 |                          | 18.0                                       |                                             |                                                    |                                                        |                                            | WKP472#CP###KR                               |

**Notes**

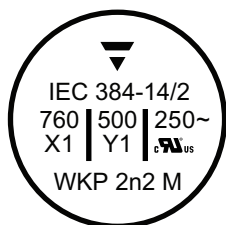
- <sup>(1)</sup> Standard lead configuration, other lead spacing and diameter available on request  
<sup>(2)</sup> Capacitance values from 1 nF to 4.7 nF: the alternative usage of smaller VKP series is recommended for new application.

**ORDERING CODE**

| #              | 7 <sup>th</sup> digit                      | Capacitance tolerance | ± 10 % = K, ± 20 % = M    |
|----------------|--------------------------------------------|-----------------------|---------------------------|
| ###            | 10 <sup>th</sup> to 12 <sup>th</sup> digit | Lead configuration    | see "General Information" |
| <b>Example</b> | <b>WKP</b>                                 | <b>222</b>            | <b>M</b>                  |
|                | Series                                     | Capacitance value     | Tolerance code            |
|                |                                            |                       | <b>CP</b>                 |
|                |                                            |                       | Voltage code              |
|                |                                            |                       | <b>ED0</b>                |
|                |                                            |                       | Lead configuration        |
|                |                                            |                       | <b>K</b>                  |
|                |                                            |                       | Internal code             |
|                |                                            |                       | <b>R</b>                  |
|                |                                            |                       | RoHS compliant            |

**MARKING**


WKP 33 pF to 1.5 nF



WKP 2.2 nF to 4.7 nF



**APPROVALS**

IEC 60384-14.4 - Safety tests

This approval together with CB test certificate substitutes all national approvals.

**CB Certificate**

Y1-capacitor: CB test certificate:

US-26549-UL

33 pF to 4.7 nF

500 V<sub>AC</sub>

X1-capacitor: CB test certificate:

US-26549-UL

33 pF to 4.7 nF

760 V<sub>AC</sub>

Minimum thickness of insulation: 0.4 mm

**VDE**

Y1-capacitor: VDE marks approval:

136493

33 pF to 4.7 nF

500 V<sub>AC</sub>

X1-capacitor: VDE marks approval:

136493

33 pF to 4.7 nF

760 V<sub>AC</sub>

DIN EN 60384-14 VDE 0565-1-1:2006-04 - Safety tests

Minimum thickness of insulation: 0.4 mm

**Underwriters Laboratories Inc. / Canadian Standards Association**

Y1-capacitor: UL-test certificate:

E183844

33 pF to 4.7 nF

500 V<sub>AC</sub>

X1-capacitor: UL-test certificate:

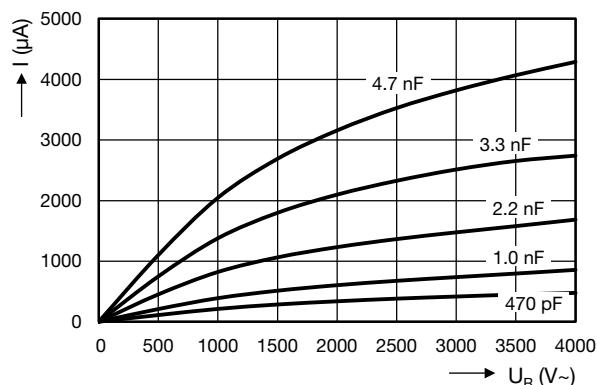
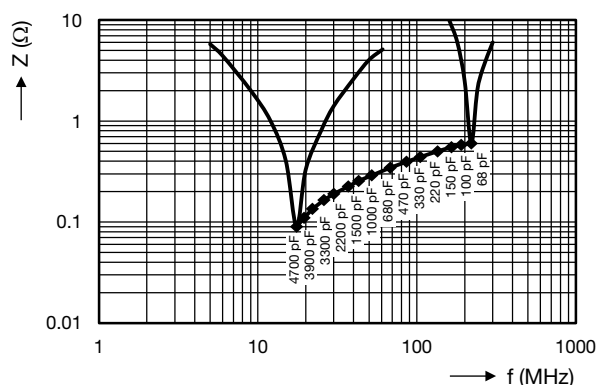
E183844

33 pF to 4.7 nF

760 V<sub>AC</sub>UL 60384-14.1, CSA E60384-1:03 2<sup>nd</sup> edition, CSA E60384-14:09 2<sup>nd</sup> edition

Across-the-line, antenna-coupling and line-by-pass component

Minimum thickness of insulation: 0.4 mm

**LEAKAGE CURRENT VS. VOLTAGE (typical)****IMPEDANCE VS. FREQUENCY (typical)****RELATED DOCUMENTS**

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| General Information | <a href="http://www.vishay.com/doc?22001">www.vishay.com/doc?22001</a> |
| CB Test Certificate | <a href="http://www.vishay.com/doc?22214">www.vishay.com/doc?22214</a> |
| VDE Marks Approval  | <a href="http://www.vishay.com/doc?22216">www.vishay.com/doc?22216</a> |
| UL Test Certificate | <a href="http://www.vishay.com/doc?22215">www.vishay.com/doc?22215</a> |



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