



# Product Change Notification



Product Group: Film capacitors/ February 25, 2009/PCN-FC-007-2008 Rev 0

## **F1772 - 2 series X2 capacitors upgrade to 310 Vac, 110°C and miniaturization of dimensions**

### **DESCRIPTION OF CHANGE:**

By this PCN we announce the upgrade of F1772 – 2, X2 capacitors. Pitch compatibility is maintained and no changes to the PCB are needed. All safety approvals are available.

Following changes are made

**Voltage rating:** For F1772 – 2: Increases from 275 Vac to 310 Vac.

**Temperature rating:** Increases from 100°C to 110°C.

**Dimensions:** See annexure for details.

**CLASSIFICATION OF CHANGE:** Upgrade of voltage and temperature. Miniaturization of dimensions.

**REASON FOR CHANGE:** Product up gradation.

**EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE:** none

**PRODUCT CATEGORY:** Film capacitors.

**PART NUMBERS/SERIES/FAMILIES AFFECTED:** F1772 XXX 2XXX

**VISHAY BRAND(s):** Vishay Roederstein.

### **TIME SCHEDULE:**

Start Shipment date: June 5, 2009

Last Time Buy Date: n/a

Last Time Shipment Date: n/a

**SAMPLE AVAILABILITY:** yes

### **PRODUCT IDENTIFICATION:**

Voltage: 310 V~ will be marked on capacitor and label. Change in dimensions and lead diameter  
See annexure.

**QUALIFICATION DATA:** yes, on request

**This PCN is considered approved, without further notification, unless we receive specific customer concerns before June 5, 2009 or as specified by contract**

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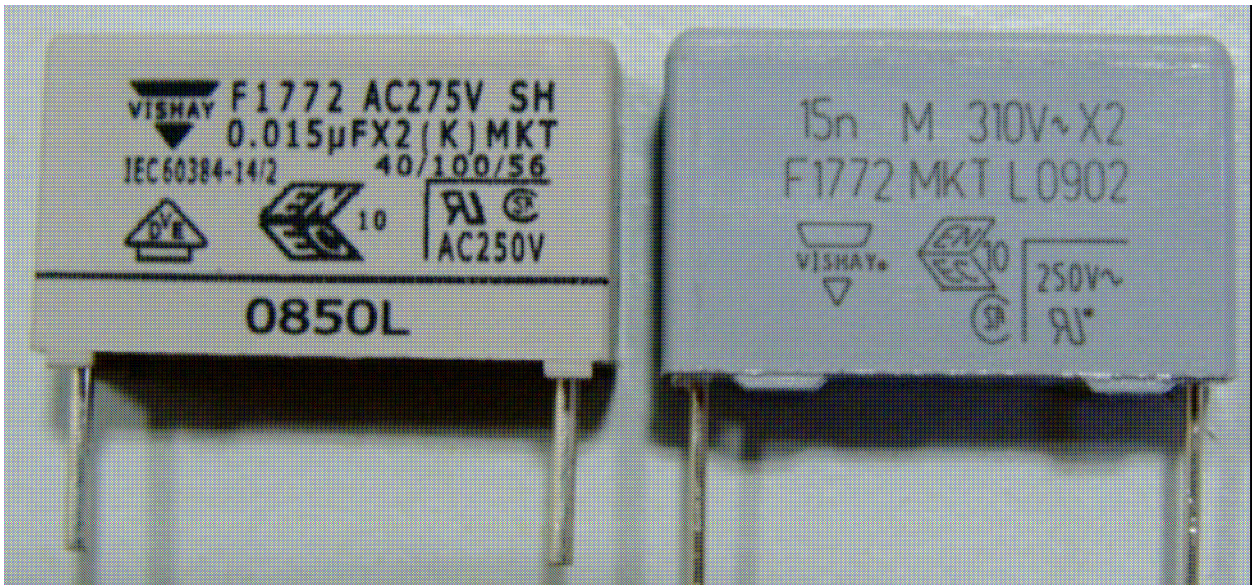
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**Annexure 1 :**

**OLD Marking**

**NEW Marking**



**Annexure**

**PCN-FC-007-2008 Rev 0**

**Change in dimensions and lead diameter of the F1772 2 series**

**Dimension table: F1772 ±10% tolerance parts**

Ordering code	Cap Value(µF)	Pitch (mm)	Old Dimensions (wxhxl) MAX (mm)	Old Lead Diameter (mm)	New Dimensions (wxhxl) MAX (mm)	New Lead Diameter (mm)	SPQ pcs
F1772 310 20..	0.01	15.0	5.5 x 10.5 x 18.0	0.8	5.0 x 11.0 x 17.5	0.6	750
F1772 312 20..	0.012	15.0	5.5 x 10.5 x 18.0	0.8	5.0 x 11.0 x 17.5	0.6	750
F1772 315 20..	0.015	15.0	5.5 x 10.5 x 18.0	0.8	5.0 x 11.0 x 17.5	0.6	750
F1772 318 20..	0.018	15.0	5.5 x 10.5 x 18.0	0.8	5.0 x 11.0 x 17.5	0.6	750
F1772 322 20..	0.022	15.0	5.5 x 10.5 x 18.0	0.8	5.0 x 11.0 x 17.5	0.6	750
F1772 327 20..	0.027	15.0	5.5 x 10.5 x 18.0	0.8	5.0 x 11.0 x 17.5	0.6	750
F1772 333 20..	0.033	15.0	5.5 x 10.5 x 18.0	0.8	5.0 x 11.0 x 17.5	0.6	750
F1772 339 20..	0.039	15.0	6.5 x 12.5 x 18.0	0.8	6.0 x 12.0 x 17.5	0.8	500
F1772 347 20..	0.047	15.0	6.5 x 12.5 x 18.0	0.8	6.0 x 12.0 x 17.5	0.8	500
F1772 356 20..	0.056	15.0	6.5 x 12.5 x 18.0	0.8	6.0 x 12.0 x 17.5	0.8	500
F1772 368 20..	0.068	15.0	7.5 x 13.5 x 18.0	0.8	7.0 x 13.5 x 17.5	0.8	450
F1772 382 20..	0.082	15.0	8.5 x 14.5 x 18.0	0.8	8.5 x 15.0 x 17.5	0.8	300
F1772 410 2000	0.1	15.0	8.5 x 14.5 x 18.0	0.8	8.5 x 15.0 x 17.5	0.8	325
F1772 410 2004	0.1	15.0	8.5 x 14.5 x 18.0	0.8	8.5 x 15.0 x 17.5	0.8	300
F1772 412 20..	0.12	15.0	8.5 x 14.5 x 18.0	0.8	8.5 x 15.0 x 17.5	0.8	300
F1772 415 20..	0.15	22.5	7.5 x 15.5 x 26.5	0.8	7.0 x 16.5 x 26.0	0.8	235
F1772 418 20..	0.18	22.5	7.5 x 15.5 x 26.5	0.8	7.0 x 16.5 x 26.0	0.8	235
F1772 422 20..	0.22	22.5	8.5 x 16.5 x 26.5	0.8	8.5 x 18.0 x 26.0	0.8	200
F1772 427 20..	0.27	22.5	10.5 x 18.5 x 26.5	0.8	10.0 x 19.5 x 26.0	0.8	170
F1772 433 20..	0.33	22.5	10.5 x 18.5 x 26.5	0.8	10.0 x 19.5 x 26.0	0.8	170
F1772 439 20..	0.39	27.5	11.2 x 20.5 x 31.5	0.8	11.0 x 21.0 x 31.0	0.8	125
F1772 447 20..	0.47	27.5	11.2 x 20.5 x 31.5	0.8	11.0 x 21.0 x 31.0	0.8	125
F1772 456 20..	0.56	27.5	11.2 x 20.5 x 31.5	0.8	11.0 x 21.0 x 31.0	0.8	125
F1772 468 20..	0.68	27.5	13.2 x 23.5 x 31.5	0.8	13.0 x 23.0 x 31.0	0.8	110
F1772 482 20..	0.82	27.5	13.2 x 23.5 x 31.5	0.8	13.0 x 23.0 x 31.0	0.8	110
F1772 510 20..	1	27.5	14.7 x 24.5 x 31.5	0.8	15.0 x 25.0 x 31.5	0.8	100
F1772 512 20..	1.2	37.5	14.2 x 24.5 x 41.5	0.8	14.5 x 24.5 x 41.5	0.8	80
F1772 515 20..	1.5	37.5	15.7 x 28.5 x 41.5	0.8	15.5 x 28.5 x 41.5	0.8	70
F1772 518 20..	1.8	37.5	15.7 x 28.5 x 41.5	0.8	15.5 x 28.5 x 41.5	0.8	70
F1772 522 20..	2.2	37.5	18.0 x 32.5 x 41.5	0.8	18.0 x 32.5 x 41.5	0.8	60

**Dimension table: F1772 ±20% tolerance parts**

Ordering code	Cap Value (µF)	Pitch (mm)	Old Dimensions (wxhxl) MAX (mm)	Old Lead Diameter (mm)	New Dimensions (wxhxl) MAX (mm)	New Lead Diameter (mm)	SPQ pcs
F1772 310 22 ..	0.01	15	5.5 x 10.5 x 18.0	0.8	5.0 x 11.0 x 17.5	0.6	750
F1772 315 22 ..	0.015	15	5.5 x 10.5 x 18.0	0.8	5.0 x 11.0 x 17.5	0.6	750
F1772 322 22 ..	0.022	15	5.5 x 10.5 x 18.0	0.8	5.0 x 11.0 x 17.5	0.6	750
F1772 333 22 ..	0.033	15	5.5 x 10.5 x 18.0	0.8	5.0 x 11.0 x 17.5	0.6	750
F1772 347 22 ..	0.047	15	5.5 x 10.5 x 18.0	0.8	5.0 x 11.0 x 17.5	0.6	750
F1772 368 22 ..	0.068	15	6.2 x 12.2 x 18.1	0.8	6.0 x 12.0 x 17.5	0.8	600
F1772 410 22 ..	0.1	15	6.2 x 12.2 x 18.1	0.8	6.0 x 12.0 x 17.5	0.8	600
F1772 415 226 .	0.15	15	8.5 x 14.5 x 18.0	0.8	8.5 x 15.0 x 17.5	0.8	325
F1772 415 22 ..	0.15	22.5	6.5 x 14.5 x 26.5	0.8	6.0 x 15.5 x 26.0	0.8	260
F1772 422 226 .	0.22	15	8.5 x 17.5 x 18.0	0.8	10.0 x 16.5 x 17.5	0.8	300
F1772 422 22 ..	0.22	22.5	7.5 x 15.5 x 26.4	0.8	7.0 x 16.5 x 26.0	0.8	235
F1772 433 226 .	0.33	15	13.5 x 22.5 x 18.0	0.8	13.5 x 22.5 x 18.0	0.8	185
F1772 433 22 ..	0.33	22.5	9.0 x 17.0 x 26.5	0.8	8.5 x 18.0 x 26.0	0.8	190
F1772 447 226 .	0.47	22.5	10.5 x 18.5 x 26.5	0.8	10.0 x 19.5 x 26.0	0.8	170
F1772 447 22 ..	0.47	27.5	9.0 x 18.5 x 31.5	0.8	9.0 x 19.0 x 31.5	0.8	160
F1772 468 226 .	0.68	22.5	15.5 x 26.5 x 26.5	0.8	12.0 x 22.0 x 26.0	0.8	110
F1772 468 22 ..	0.68	27.5	11.2 x 20.5 x 31.5	0.8	11.0 x 21.0 x 31.0	0.8	125
F1772 510 226 .	1	22.5	15.5 x 26.5 x 26.5	0.8	15.5 x 26.5 x 26.5	0.8	110
F1772 510 22 ..	1	27.5	14.7 x 24.5 x 31.5	0.8	15.0 x 25.0 x 31.5	0.8	100
F1772 515 226 .	1.5	27.5	16.2 x 29.5 x 31.5	0.8	18.0 x 28.0 x 31.5	0.8	85
F1772 515 22 ..	1.5	37.5	14.2 x 24.5 x 41.5	0.8	14.5 x 24.5 x 41.5	0.8	80
F1772 522 226 .	2.2	27.5	21.0 x 31.0 x 31.0	0.8	21.0 x 31.0 x 31.0	0.8	70
F1772 522 22 ..	2.2	37.5	15.7 x 28.5 x 41.5	0.8	15.5 x 24.5 x 41.5	0.8	70