



Product Termination Notification



Product Group: AC/Wed Aug 10, 2022/PTN-AC-00901-2022-REV-0

Vishay Sprague Aluminum Capacitors Discontinuance of Radial 515D and 517D Series

DESCRIPTION OF CHANGE: Termination of Vishay Sprague series 515D and 517D.

Affected part numbers: 515D* and 517D* (all PNs within these families, whether listed or not).

REASON FOR CHANGE: Poor availability of key raw materials and low market demand.

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE: N/A

PART NUMBERS/SERIES/FAMILIES AFFECTED: Please see materials list on the succeeding page.

VISHAY BRAND(s): Vishay Sprague

TIME SCHEDULE:

Last Time Buy Date: Wed Feb 22, 2023

Last Time Ship Date: Mon Aug 21, 2023

SAMPLE AVAILABILITY: N/A

PRODUCT IDENTIFICATION: Series name, capacitance and voltage values are printed on the products, part numbers are shown on packaging labels.

QUALIFICATION DATA: N/A

This PTN is considered approved, without further notification, unless we receive specific customer concerns before Fri Sep 30, 2022 or as specified by contract.

ISSUED BY: Walter Bonomo, Walter.Bonomo@Vishay.com

For further information, please contact your regional Vishay office.

CONTACT INFORMATION:

Americas

Walter Bonomo
Vishay Americas
One Greenwich Place
Shelton United States 06484
Walter.Bonomo@Vishay.com
Phone: +1 704 924 5188
Fax: +43 463 3834 301

Europe

Gerald Tatschl
Vishay BCcomponents Austria GmbH
Ebentaler Straße 140
Klagenfurt Austria 9020
Gerald.Tatschl@Vishay.com
Phone: +43 463 3834 314
Fax: +43 463 3834 301

Asia

Boon Hooi Tan
Vishay Intertechnology Asia Pte. Ltd.
37A Tampines Street 92 #07-01
Singapore Singapore 528886
BoonHooi.Tan@Vishay.com
Phone: +65 6780 7759
Fax: +43 463 3834 301

Vishay Intertechnology, Inc.

Corporate Headquarters 63 Lincoln Highway, Malvern, PA 19355-2143 U.S.A. Phone (610) 644-1300 Fax (610) 296-0657 www.vishay.com

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515D104M050JA6AE3	515D104M100JA6AE3	515D105M050JA6AE3	515D105M100JA6AE3	515D105M100JA8PE3
515D105M250AA6AE3	515D105M350BB6AE3	515D105M450CC6AE3	515D106M016JA6AE3	515D106M025JA6AE3
515D106M025JA8PE3	515D106M035JA6AE3	515D106M035JA8PE3	515D106M050JA6AE3	515D106M050JA8PE3
515D106M063JA6AE3	515D106M063JA8PE3	515D106M100AA6AE3	515D106M100AA7KE3	515D106M100AA8PE3
515D106M160CC6AE3	515D106M200CD6AE3	515D106M250CG6AE3	515D106M450DK6AE3	515D107M010JA6AE3
515D107M016AA6AE3	515D107M016AA6FE3	515D107M025AA6AE3	515D107M025AA8PE3	515D107M035BB6AE3
515D107M035BB6FE3	515D107M035BB8PE3	515D107M050BB6AE3	515D107M050BB6FE3	515D107M050BB8PE3
515D107M063CC6AE3	515D107M063CC6CE3	515D107M063CC8PE3	515D107M100DG6AE3	515D107M100DG8PE3
515D107M160EK6AE3	515D107M200EN6AE3	515D107M250FR6AE3	515D107M6R3JA6AE3	515D108M010CD6AE3
515D108M010CD8PE3	515D108M016CG6AE3	515D108M016CG8PE3	515D108M025DG6AE3	515D108M025DG6CE3
515D108M035DK6AE3	515D108M035DK8PE3	515D108M050EK6AE3	515D108M050EK6CE3	515D108M063EN6AE3
515D108M100FV6AE3	515D108M6R3CC6AE3	515D109M010FR6AE3	515D109M016FV6AE3	515D109M6R3EN6AE3
515D157M250FV6AE3	515D159M010FV6AE3	515D224M050JA6AE3	515D225M050JA6AE3	515D225M050JA8PE3
515D225M100JA6AE3	515D225M160AA6AE3	515D225M200AA6AE3	515D225M250BB6AE3	515D225M250BB8PE3
515D225M315BB6AE3	515D225M400CC6AE3	515D225M450CD6AE3	515D226M016JA6AE3	515D226M025JA6AE3
515D226M025JA8PE3	515D226M035JA6AE3	515D226M035JA8PE3	515D226M050JA6AE3	515D226M050JA8PE3
515D226M063AA6AE3	515D226M100BB6AE3	515D226M100BB8PE3	515D226M160CG6AE3	515D226M200CG6AE3
515D226M315DK6AE3	515D226M350DK6AE3	515D226M450EN6AE3	515D227M010AA6AE3	515D227M016BB6AE3
515D227M025BB6AE3	515D227M025BB8PE3	515D227M035CC6AE3	515D227M035CC6CE3	515D227M035CC8PE3
515D227M050CD6AE3	515D227M050CD8PE3	515D227M063CG6AE3	515D227M063CG8PE3	515D227M100EK6AE3
515D227M160FR6AE3	515D227M200FV6AE3	515D227M6R3AA6AE3	515D228M010DG6AE3	515D228M010DG8PE3
515D228M016DK6AE3	515D228M025EK6AE3	515D228M035EN6AE3	515D228M050FR6AE3	515D228M063FV6AE3
515D228M6R3DG6AE3	515D335M050JA6AE3	515D335M100JA6AE3	515D335M160BB6AE3	515D335M250CC6AE3
515D335M350CD6AE3	515D336M010JA6AE3	515D336M016JA6AE3	515D336M025JA6AE3	515D336M035JA6AE3
515D336M050AA6AE3	515D336M063AA6AE3	515D336M350EN6AE3	515D336M400EN6AE3	515D336M450FR6AE3
515D336M6R3JA6AE3	515D337M010BB6AE3	515D337M016BB6AE3	515D337M025CC6AE3	515D337M025CC6CE3
515D337M025CC8PE3	515D337M035CD6AE3	515D337M050CG6AE3	515D337M050CG8PE3	515D337M063DG6AE3
515D337M100EK6AE3	515D337M6R3AA6AE3	515D338M010DK6AE3	515D338M016EK6AE3	515D338M025EN6AE3
515D338M035FR6AE3	515D474M050JA6AE3	515D474M100JA6AE3	515D474M160AA6AE3	515D474M250AA6AE3
515D475M025JA6AE3	515D475M025JA8PE3	515D475M035JA6AE3	515D475M050JA6AE3	515D475M050JA8PE3
515D475M063JA6AE3	515D475M063JA8PE3	515D475M100JA6AE3	515D475M160BB6AE3	515D475M160BB8PE3
515D475M250CC6AE3	515D475M350CD6AE3	515D475M450DG6AE3	515D476M010JA6AE3	515D476M016JA6AE3
515D476M016JA8PE3	515D476M025JA6AE3	515D476M025JA8PE3	515D476M035AA6AE3	515D476M050AA6AE3
515D476M050AA6FE3	515D476M050AA8PE3	515D476M063BB6AE3	515D476M063BB8PE3	515D476M100CD6AE3
515D476M160DK6AE3	515D476M250EK6AE3	515D476M350FR6AE3	515D477M010BB6AE3	515D477M016CC6AE3
515D477M025CD6AE3	515D477M035CG6AE3	515D477M035CG8PE3	515D477M050DG6AE3	515D477M050DG8PE3
515D477M063DK6AE3	515D477M100EN6AE3	515D477M6R3BB6AE3	515D477M6R3BB8PE3	515D478M010EK6AE3
515D478M016EN6AE3	515D478M025FR6AE3	515D478M035FV6AE3	515D688M010EN6AE3	515D688M016FR6AE3
517D105M050JA6AE3	517D105M100JA6AE3	517D105M160AA6AE3	517D105M250AA6AE3	517D106M016JA6AE3
517D106M025JA6AE3	517D106M035JA6AE3	517D106M050JA6AE3	517D106M050JA8PE3	517D106M063JA6AE3
517D106M100AA6AE3	517D106M100AA7KE3	517D106M160CC6AE3	517D106M200CD6AE3	517D106M250CG6AE3
517D107M010JA6AE3	517D107M016AA6AE3	517D107M025AA6AE3	517D107M025AA8PE3	517D107M035BB6AE3
517D107M050BB6AE3	517D107M063CC6AE3	517D107M063CC8PE3	517D107M100DG6AE3	517D107M160EK6AE3
517D107M200EN6AE3	517D107M250FR6AE3	517D107M6R3JA6AE3	517D108M010CD6AE3	517D108M016CG6AE3
517D108M025DG6AE3	517D108M025DG6SE3	517D108M035DK6AE3	517D108M050EK6AE3	517D108M063EN6AE3
517D108M100FV6AE3	517D108M6R3CC6AE3	517D109M016FV6AE3	517D225M050JA6AE3	517D225M100JA6AE3
517D225M160AA6AE3	517D225M250BB6AE3	517D226M016JA6AE3	517D226M025JA6AE3	517D226M035JA6AE3
517D226M050JA6AE3	517D226M063AA6AE3	517D226M100BB6AE3	517D226M160CG6AE3	517D226M200CG6AE3
517D226M250DK6AE3	517D226M6R3JA6AE3	517D227M010AA6AE3	517D227M016BB6AE3	517D227M025BB6AE3
517D227M035CC6AE3	517D227M035CC8PE3	517D227M050CD6AE3	517D227M050CD8PE3	517D227M063CG6AE3
517D227M100EK6AE3	517D227M160FR6AE3	517D227M200FV6AE3	517D228M010DG6AE3	517D228M016DK6AE3
517D228M025EK6AE3	517D228M035EN6AE3	517D228M050FR6AE3	517D335M050JA6AE3	517D335M100JA6AE3
517D335M100JA7KE3	517D336M016JA6AE3	517D336M025JA6AE3	517D336M035JA6AE3	517D336M050AA6AE3
517D336M050AA7KE3	517D336M100CC6AE3	517D336M160DG6AE3	517D336M250DK6AE3	517D337M016BB6AE3
517D337M025CC6AE3	517D337M035CD6AE3	517D337M050CG6AE3	517D337M063DG6AE3	517D337M100EK6AE3
517D337M6R3AA6AE3	517D338M016EK6AE3	517D338M035FR6AE3	517D474M100JA6AE3	517D474M200AA6AE3

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517D475M035JA6AE3	517D475M050JA6AE3	517D475M063JA6AE3	517D475M100JA6AE3	517D475M160BB6AE3
517D475M200CC6AE3	517D475M250CC6AE3	517D476M010JA6AE3	517D476M016JA6AE3	517D476M025JA6AE3
517D476M035AA6AE3	517D476M050AA6AE3	517D476M063BB6AE3	517D476M100CD6AE3	517D476M160DK6AE3
517D476M200DK6AE3	517D476M250EK6AE3	517D477M016CC6AE3	517D477M016CC8PE3	517D477M025CD6AE3
517D477M035CG6AE3	517D477M035CG8PE3	517D477M050DG6AE3	517D477M063DK6AE3	517D477M100EN6AE3
517D478M016EN6AE3	517D478M025FR6AE3	517D478M035FV6AE3	517D478M6R3EK6AE3	517D688M010EN6AE3
515D476M016JA7KE3	517D336M6R3JA6AE3	517D476M6R3JA6AE3	517D227M6R3AA6AE3	517D477M6R3BB6AE3
517D228M6R3DG6AE3	517D338M6R3DG6AE3	517D688M6R3EK6AE3	517D109M6R3EN6AE3	517D159M6R3FR6AE3
517D226M010JA6AE3	517D336M010JA6AE3	517D337M010BB6AE3	517D477M010BB6AE3	517D338M010DK6AE3
517D478M010EK6AE3	517D109M010FR6AE3	517D159M010FV6AE3	517D688M016FR6AE3	517D475M025JA6AE3
517D338M025EN6AE3	517D474M050JA6AE3	517D336M050M6AE3	517D336M063AA6AE3	517D228M063FV6AE3
517D474M160AA6AE3	517D335M160BB6AE3	517D105M200AA6AE3	517D225M200AA6AE3	517D335M200BB6AE3
517D336M200DK6AE3	517D474M250AA6AE3	517D335M250CC6AE3	515D226M6R3JA6AE3	515D476M6R3JA6AE3
515D338M6R3DG6AE3	515D478M6R3EK6AE3	515D688M6R3EK6AE3	515D159M6R3FR6AE3	515D189M6R3FV6AE3
515D226M010JA6AE3	515D334M050JA6AE3	515D224M100JA6AE3	515D334M100JA6AE3	515D336M100CC6AE3
515D105M160AA6AE3	515D336M160DG6AE3	515D474M200AA6AE3	515D105M200AA6AE3	515D335M200BB6AE3
515D475M200CC6AE3	515D336M200DK6AE3	515D476M200DK6AE3	515D336M250DK6AE3	515D105M315AA6AE3
515D335M315CC6AE3	515D475M315CD6AE3	515D106M315CG6AE3	515D336M315EK6AE3	515D476M315EN6AE3
515D107M315FV6AE3	515D225M350CC6AE3	515D106M350DG6AE3	515D105M400BB6AE3	515D335M400CD6AE3
515D475M400CD6AE3	515D106M400DG6AE3	515D226M400DK6AE3	515D476M400FR6AE3	515D106M450EK6AE3

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Replacement Table
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PART NUMBER	Description	CROSS PN	Description Cross	Case Size Cross	Remarks
515D104M050JA6AE3	0.1uF 50V 5x11 85°C Rad	NO CROSS			
515D104M100JA6AE3	0.1uF 100V 5x11 85°C Rad	NO CROSS			
515D105M050JA6AE3	1uF 50V 5x11 85°C Rad	MAL214258108E3	1µF 63V 5X11 105°C 2500h	5 x 11	63V, DF 0,09, neuer 142
515D105M100JA6AE3	1uF 100V 5x11 85°C Rad	MAL214252108E3	1µF 200V 5x11mm 105°C 2500h	5 x 11	200V, DF 0,14
515D105M100JA8PE3	1uF 100V 5x11 85°C Rad	NO CROSS			
515D105M160AA6AE3	1uF 160V 6.3x11	MAL214251085E3	1µF 350V 6,3x11mm 105°C 2500h	6,3 x 11	350V
515D105M200AA6AE3	1uF 200V 6.3x11	MAL214251085E3	1µF 350V 6,3x11mm 105°C 2500h	6,3 x11	350V
515D105M250AA6AE3	1uF 250V 6.3x11 85°C Rad	MAL214251085E3	1µF 350V 6,3x11mm 105°C 2500h	6,3 x 11	
515D105M315AA6AE3	1uF 315V 6.3x11	MAL214251085E3	1µF 350V 6,3x11mm 105°C 2500h	6,3 x 11	350V
515D105M350BB6AE3	1uF 350V 8x11.5 85°C Rad	MAL214257108E3	1µF 450V 8x12mm 105°C 2500h	8 x 12	400V
515D105M400BB6AE3	1uF 400V 8x12	MAL214257108E3	1µF 450V 8x12mm 105°C 2500h	8 x 12	450V
515D105M450CC6AE3	1uF 450V 10x12.5 85°C Rad	MAL214257108E3	1µF 450V 8x12mm 105°C 2500h	8 x 12	smaller can
515D106M016HW6AE3	10uF 16V 4x7 85°C Rad	NO CROSS			
515D106M016JA6AE3	10uF 16V 5x11 85°C Rad	MAL214258109E3	10µF 63V 5x11mm 105°C 2500h	5 x 11	63V, DF 0,09
515D106M025JA6AE3	10uF 25V 5x11 85°C Rad	MAL214258109E3	10µF 63V 5x11mm 105°C 2500h	5 x 11	63V, DF 0,09
515D106M025JA8PE3	10uF 25V 5x11 85°C Rad	MAL214238109E3	10µF 63V 5x11mm 105°C 2500h	5 x 11	
515D106M035JA6AE3	10uF 35V 5x11 85°C Rad	MAL214258109E3	10µF 63V 5x11mm 105°C 2500h	5 x 11	63V, DF 0,09
515D106M035JA8PE3	10uF 35V 5x11 85°C Rad	MAL214238109E3	10µF 63V 5x11mm 105°C 2500h	5 x 11	
515D106M035JW6AE3	10uF 35V 5x7 85°C Rad	NO CROSS			
515D106M050AW6AE3	10uF 50V 6.3x7 85°C Rad	NO CROSS			
515D106M050JA6AE3	10uF 50V 5x11 85°C Rad	MAL214258109E3	10µF 63V 5x11mm 105°C 2500h	5 x 11	
515D106M050JA8PE3	10uF 50V 5x11 85°C Rad	MAL214238109E3	10µF 63V 5x11mm 105°C 2500h	5 x 11	
515D106M063JA6AE3	10uF 63V 5x11 85°C Rad	MAL214258109E3	10µF 63V 5x11mm 105°C 2500h	5 x 11	DF 0,09
515D106M063JA8PE3	10uF 63V 5x11 85°C Rad	MAL214238109E3	10µF 63V 5x11mm 105°C 2500h	5 x 11	
515D106M100AA6AE3	10uF 100V 6.3x11 85°C Rad	MAL214299105E3	10µF 100V 6,3x11mm 105°C 2500h	6,3 x 11	neuer 142
515D106M100AA7KE3	10uF 100V 6.3x11 85°C Rad	MAL214299105E3	10µF 100V 6,3x11mm 105°C 2500h	6,3 x 11	neuer 142
515D106M100AA8PE3	10uF 100V 6.3x11 85°C Rad	MAL214299103E3	10µF 100V 6,3x11mm 105°C 2500h	6,3 x 11	neuer 142
515D106M160CC6AE3	10uF 160V 10x12.5 85°C Rad	MAL214252109E3	10µF 200V 10x12mm 105°C 2500h	10 x12	200V
515D106M200CD6AE3	10uF 200V 10x16 85°C Rad	MAL214252109E3	10µF 200V 10x12mm 105°C 2500h	10 x 12	
515D106M250CG6AE3	10uF 250V 10x20 85°C Rad	MAL214251093E3	10µF 250V 10x12mm 105°C 2500h	10 x 12	Ir 92mA DF0,17
515D106M315CG6AE3	10uF 315V 10x20	MAL214251095E3	10µF 350V 10x16mm 105°C 2500h	10 x 16	350V
515D106M350DG6AE3	10uF 350V 12.5x20	MAL214251095E3	10µF 350V 10x16mm 105°C 2500h	10 x 16	Smaller can, same pitch
515D106M400DG6AE3	10uF 400V 12.5x20	MAL214251096E3	10µF 400V 10x20mm 105°C 2500h	10 x 20	
515D106M450DK6AE3	10uF 450V 16x25 85°C Rad	NO CROSS			
515D106M450EK6AE3	10uF 450V 12.5x25	MAL214257109E3	10µF 450V 12,5x20mm 105°C 2500h	12,5 x 20	
515D107M010JA6AE3	100uF 10V 5x11 85°C Rad	MAL214255101E3	100µF 16V 5x11mm 105°C 2500h	5 x 11	
515D107M016AA6AE3	100uF 16V 6.3x11 85°C Rad	MAL214256101E3	100µF 25V 6,3x11mm 105°C 2500h	6,3 x 11	
515D107M016AA6FE3	100uF 16V 6.3x11 85°C Rad	MAL214256101E3	100µF 25V 6,3x11mm 105°C 2500h	6,3 x 11	
515D107M025AA6AE3	100uF 25V 6.3x11 85°C Rad	MAL214256101E3	100µF 25V 6,3x11mm 105°C 2500h	6,3 x 11	



Replacement Table
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PART NUMBER	Description	CROSS PN	Description Cross	Case Size Cross	Remarks
515D107M025AA8PE3	100uF 25V 6.3x11 85°C Rad	MAL214236101E3	100µF 25V 6,3x11mm 105°C 2500h	6,3 x 11	
515D107M035BB6AE3	100uF 35V 8x11.5 85°C Rad	MAL214251101E3	100µF 50V 8x12mm 105°C 2500h	8 x 12	
515D107M035BB6FE3	100uF 35V 8x11.5 85°C Rad	MAL214251101E3	100µF 50V 8x12mm 105°C 2500h	8 x 12	
515D107M035BB8PE3	100uF 35V 8x11.5 85°C Rad	MAL214231101E3	100µF 50V 8x12mm 105°C 2500h	8 x 12	50V
515D107M050BB6AE3	100uF 50V 8x11.5 85°C Rad	MAL214251101E3	100µF 50V 8x12mm 105°C 2500h	8 x 12	
515D107M050BB6FE3	100uF 50V 8x11.5 85°C Rad	MAL214251101E3	100µF 50V 8x12mm 105°C 2500h	8 x 12	
515D107M050BB8PE3	100uF 50V 8x11.5 85°C Rad	MAL214231101E3	100µF 50V 8x12mm 105°C 2500h	8 x 12	
515D107M063CC6AE3	100uF 63V 10x12.5 85°C Rad	MAL214258101E3	100µF 63V 10x12mm 105°C 2500h	10 x 12	
515D107M063CC6CE3	100uF 63V 10x12.5 85°C Rad	MAL214268101E3	100µF 63V 10x12mm 105°C 2500h	10 x 12	
515D107M063CC8PE3	100uF 63V 10x12.5 85°C Rad	MAL214238101E3	100µF 63V 10x12mm 105°C 2500h	10 x 12	
515D107M100DG6AE3	100uF 100V 12.5x20 85°C Rad	MAL214259101E3	100µF 100V 10x20mm 105°C 2500h	10 x 20	smaller can, same pitch I/Ir 1,51
515D107M100DG8PE3	100uF 100V 12.5x20 85°C Rad	MAL214239101E3	100µF 100V 10x20mm 105°C 2500h	10 x 20	Smaller can same pitch
515D107M160EK6AE3	100uF 160V 16x25 85°C Rad	MAL214252101E3	100µF 200V 16x25mm 105°C 2500h	16 x 25	
515D107M200EN6AE3	100uF 200V 16x31.5 85°C Rad	MAL214252101E3	100µF 200V 16x25mm 105°C 2500h	16 x 25	
515D107M250FR6AE3	100uF 250V 18x40 85°C Rad	MAL214251013E3	100µF 250V 16x31mm 105°C 2500h	16 x 31	350V
515D107M315FV6AE3	100uF 315V 18x40	MAL214251015E3	100µF 350V 18x35mm 105°C 2500h	18 x 35	400V
515D107M6R3JA6AE3	100uF 6.3V 5x11 85°C Rad	MAL214255101E3	100µF 16V 5x11mm 105°C 2500h	5 x 11	
515D108M010CD6AE3	1000uF 10V 10x16 85°C Rad	MAL214254102E3	1000µF 10V 10x12mm 105°C 2500h	10 x 12	
515D108M010CD8PE3	1000uF 10V 10x16 85°C Rad	MAL214235102E3	1000µF 16V 10x16mm 105°C 2500h	10 x 16	16V
515D108M016CG6AE3	1000uF 16V 10x20 85°C Rad	MAL214255102E3	1000µF 16V 10x16mm 105°C 2500h	10 x 16	
515D108M016CG8PE3	1000uF 16V 10x20 85°C Rad	MAL214236102E3	1000µF 25V 10x20mm 105°C 2500h	10 x 20	
515D108M025DG6AE3	1000uF 25V 12.5x20 85°C Rad	MAL214250102E3	1000µF 35V 12,5x20mm 105°C 2500h	12,5 x 20	35V
515D108M025DG6CE3	1000uF 25V 12.5x20 85°C Rad	MAL214260102E3	1000µF 35V 12,5x20mm 105°C 2500h	12,5 x 20	35V
515D108M035DK6AE3	1000uF 35V 12.5x25 85°C Rad	MAL214250102E3	1000µF 35V 12,5x20mm 105°C 2500h	12,5 x 20	
515D108M035DK8PE3	1000uF 35V 12.5x25 85°C Rad	MAL214231102E3	1000µF 50V 12,5x25mm 105°C 2500h	12,5 x 20	50V
515D108M050EK6AE3	1000uF 50V 16x25 85°C Rad	MAL204851102E3	1000µF 50V 16x25mm 105°C 4000h	16 x 25	
515D108M050EK6CE3	1000uF 50V 16x25 85°C Rad	MAL204861102E3	1000µF 50V 16x25mm 105°C 4000h	16 x 25	
515D108M063EN6AE3	1000uF 63V 16x31.5 85°C Rad	MAL214258102E3	1000µF 63V 16x25mm 105°C 2500h	16 x 25	
515D108M100FV6AE3	1000uF 100V 18x40 85°C Rad	MAL214259102E3	1000µF 100V 18x40mm 105°C 2500h	18 x 40	
515D108M6R3CC6AE3	1000uF 6.3V 10x12.5 85°C Rad	NO CROSS			
515D109M010FR6AE3	10000uF 10V 18x35.5 85°C Rad	MAL214254103E3	10000µF 10V 16x31mm 105°C 2500h	16 x 31	Smaller can, same pitch
515D109M016FV6AE3	10000uF 16V 18x40 85°C Rad	MAL214255103E3	10000µF 16V 18x31mm 105°C 2500h	18 x 31	
515D109M6R3EN6AE3	10000uF 6.3V 16x31.5 85°C Rad	MAL214254103E3	10000µF 10V 16x31mm 105°C 2500h	16 x 31	
515D157M250FV6AE3	150uF 250V 18x40 85°C Rad	NO CROSS			
515D159M010FV6AE3	15000uF 10V 18x40 85°C Rad	MAL214854153E3	15000µF 10V 18x35mm 105°C 3000h	18 x 35	
515D159M6R3FR6AE3	15000uF 6.3V 18x35	MAL214854153E3	15000µF 10V 18x35mm 105°C 3000h	18 x 35	
515D189M6R3FV6AE3	18000uF 6.3V 18x40	MAL214854153E3	15000µF 10V 18x35mm 105°C 3000h	18 x 35	
515D224M050JA6AE3	0.22uF 50V 5x11 85°C Rad	NO CROSS			



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PART NUMBER	Description	CROSS PN	Description Cross	Case Size Cross	Remarks
515D224M100JA6AE3	0.22uF 100V 5x11	NO CROSS			
515D225M050JA6AE3	2.2uF 50V 5x11 85°C Rad	MAL214259228E3	2,2µF 100V 5x11mm 105°C 2500h	5 x 11	
515D225M050JA8PE3	2.2uF 50V 5x11 85°C Rad	MAL214239228E3	2,2µF 100V 5x11mm 105°C 2500h	5 x 11	100V
515D225M100JA6AE3	2.2uF 100V 5x11 85°C Rad	MAL214259228E3	2,2µF 100V 5x11mm 105°C 2500h	5 x 11	
515D225M160AA6AE3	2.2uF 160V 6.3x11 85°C Rad	MAL214272228E3	2,2µF 200V 6,3x11mm 105°C 2500h	6,3 x 11	
515D225M200AA6AE3	2.2uF 200V 6.3x11 85°C Rad	MAL214252228E3	2,2µF 200V 6,3x11mm 105°C 2500h	6,3 x 11	
515D225M250BB6AE3	2.2uF 250V 8x11.5 85°C Rad	MAL214252285E3	2,2µF 350V 8x12mm 105°C 2500h	8 x 12	
515D225M250BB8PE3	2.2uF 250V 8x11.5 85°C Rad	MAL214232285E3	2,2µF 350V 8x12mm 105°C 2500h	8 x 12	350V
515D225M315BB6AE3	2.2uF 315V 8x11.5 85°C Rad	MAL214252285E3	2,2µF 350V 8x12mm 105°C 2500h	8 x 12	350V
515D225M350CC6AE3	2.2uF 350V 10x12	MAL214257228E3	2,2µF 450V 10x12mm 105°C 2500h	10 x 12	450V
515D225M400CC6AE3	2.2uF 400V 10x12.5 85°C Rad	MAL214257228E3	2,2µF 450V 10x12mm 105°C 2500h	8 x 12	450V
515D225M450CD6AE3	2.2uF 450V 10x16 85°C Rad	MAL214257228E3	2,2µF 450V 10x12mm 105°C 2500h	10 x 12	
515D226M010JA6AE3	22uF 10V 5x11	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	5 x 11	50V, DF 0,10
515D226M016JA6AE3	22uF 16V 5x11 85°C Rad	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	5 x 11	50V, DF 0,10
515D226M025JA6AE3	22uF 25V 5x11 85°C Rad	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	5 x 11	
515D226M025JA8PE3	22uF 25V 5x11 85°C Rad	MAL214231229E3	22µF 50V 5x11mm 105°C 2500h	5 x 11	50V
515D226M035JA6AE3	22uF 35V 5x11 85°C Rad	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	5 x 11	
515D226M035JA8PE3	22uF 35V 5x11 85°C Rad	MAL214231229E3	22µF 50V 5x11mm 105°C 2500h	5 x 11	
515D226M050JA6AE3	22uF 50V 5x11 85°C Rad	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	5 x 11	
515D226M050JA8PE3	22uF 50V 5x11 85°C Rad	MAL214231229E3	22µF 50V 5x11mm 105°C 2500h	5 x 11	
515D226M063AA6AE3	22uF 63V 6.3x11 85°C Rad	MAL214258229E3	22µF 63V 6,3x11mm 105°C 2500h	6,3 x 11	
515D226M100BB6AE3	22uF 100V 8x11.5 85°C Rad	MAL214259229E3	22µF 100V 8x12mm 105°C 2500h	8 x 12	
515D226M100BB8PE3	22uF 100V 8x11.5 85°C Rad	MAL214239229E3	22µF 100V 8x12mm 105°C 2500h	8 x 12	
515D226M160CG6AE3	22uF 160V 10x20 85°C Rad	MAL214252229E3	22µF 200V 10x16mm 105°C 2500h	10 x 16	200V
515D226M200CG6AE3	22uF 200V 10x20 85°C Rad	MAL214252229E3	22µF 200V 10x16mm 105°C 2500h	10 x 16	
515D226M315DK6AE3	22uF 315V 12.5x25 Rad 85°C	MAL214252295E3	22µF 350V 12,5x20mm 105°C 2500h	12,5 x 20	350V
515D226M350DK6AE3	22uF 350V 12.5x25 85°C Rad	MAL214252295E3	22µF 350V 12,5x20mm 105°C 2500h	12,5 x 20	
515D226M400DK6AE3	22uF 400V 16x25	MAL214257229E3	22µF 450V 16x20mm 105°C 2500h	16 x 20	450V
515D226M450EN6AE3	22uF 450V 16x31.5 85°C Rad	MAL214257229E3	22µF 450V 16x20mm 105°C 2500h	16 x 20	
515D226M6R3JA6AE3	22uF 6.3V 5x11	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	5 x 11	50V, DF 0,10
515D227M010AA6AE3	220uF 10V 6.3x11 85°C Rad	MAL214255221E3	220µF 16V 6,3x11mm 105°C 2500h	6,3 x 11	
515D227M016BB6AE3	220uF 16V 8x11.5 85°C Rad	MAL214250221E3	220µF 35V 8x12mm 105°C 2500h	8 x 12	
515D227M025BB6AE3	220uF 25V 8x11.5 85°C Rad	MAL214250221E3	220µF 35V 8x12mm 105°C 2500h	8 x 12	
515D227M025BB8PE3	220uF 25V 8x11.5 85°C Rad	MAL214236221E3	220µF 25V 8x12mm 105°C 2500h	8 x 12	
515D227M035CC6AE3	220uF 35V 10x12.5 85°C Rad	MAL214251221E3	220µF 50V 10x12mm 105°C 2500h	10 x 12	50 V I/Ir = 1,55
515D227M035CC6CE3	220uF 35V 10x12.5 85°C Rad	MAL214861221E3	220µF 50V 10x12mm 105°C 2000h	10 x 12	50V
515D227M035CC8PE3	220uF 35V 10x12.5 85°C Rad	MAL214831221E3	220µF 50V 10x12mm 105°C 2000h	10 x 12	
515D227M050CD6AE3	220uF 50V 10x16 85°C Rad	MAL214251221E3	220µF 50V 10x12mm 105°C 2500h	10 x 12	I/Ir = 1,84
515D227M050CD8PE3	220uF 50V 10x16 85°C Rad	MAL215031221E3	220µF 50V 10x16mm 105°C 6000h	10 x 16	
515D227M063CG6AE3	220uF 63V 10x20 85°C Rad	MAL214258221E3	220µF 63V 10x16mm 105°C 2500h	10 x 16	
515D227M063CG8PE3	220uF 63V 10x20 85°C Rad	MAL204838221E3	220µF 63V 10x20mm 105°C 3000h	10 x 20	



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PART NUMBER	Description	CROSS PN	Description Cross	Case Size Cross	Remarks
515D227M100EK6AE3	220uF 100V 16x25 85°C Rad	MAL214899225E3	220µF 100V 16x20mm 105°C 3000h	16 x 20	
515D227M160FR6AE3	220uF 160V 18x35.5 85°C Rad	MAL214252221E3	220µF 200V 18x35mm 105°C 2500h	18 x 35	
515D227M200FV6AE3	220uF 200V 18x40 85°C Rad	MAL214252221E3	220µF 200V 18x35mm 105°C 2500h	18 x 35	
515D227M6R3AA6AE3	220uF 6.3V 6.3x11 85°C Rad	NO CROSS			
515D228M010DG6AE3	2200uF 10V 12.5x20 85°C Rad	MAL214255222E3	2200µF 16V 12,5x20mm 105°C 2500h	12,5 x 20	
515D228M010DG8PE3	2200uF 10V 12.5x20 85°C Rad	MAL214235222E3	2200µF 16V 12,5x20mm 105°C 2500h	12,5 x 20	
515D228M016DK6AE3	2200uF 16V 12.5x25 85°C Rad	MAL214255222E3	2200µF 16V 12,5x20mm 105°C 2500h	12,5 x 20	
515D228M025EK6AE3	2200uF 25V 16x25 85°C Rad	MAL214250222E3	2200µF 35V 16x25mm 105°C 2500h	16 x 25	35V
515D228M035EN6AE3	2200uF 35V 16x31.5 85°C Rad	MAL214250222E3	2200µF 35V 16x25mm 105°C 2500h	16 x 25	
515D228M050FR6AE3	2200uF 50V 18x35.5 85°C Rad	MAL214258222E3	2200µF 63V 18x40mm 105°C 2500h	18 x 40	63V, higher
515D228M063FV6AE3	2200uF 63V 18x40 85°C Rad	MAL214258222E3	2200µF 63V 18x40mm 105°C 2500h	18 x 40	
515D228M6R3DG6AE3	2200uF 6.3V 12.5x20 85°C Rad	MAL214254222E3	2200µF 10V 10x20mm 105°C 2500h	10 x 20	
515D334M050JA6AE3	0.33uF 50V 5x11	NO CROSS			
515D334M100JA6AE3	0.33uF 100V 5x11	NO CROSS			
515D335M050JA6AE3	3.3uF 50V 5x11 85°C Rad	MAL214258338E3	3,3µF 63V 5x11mm 105°C 2500h	5 x 11	neuer 142
515D335M100JA6AE3	3.3uF 100V 5x11 85°C Rad	NO CROSS			
515D335M160BB6AE3	3.3uF 160V 8x11.5 85°C Rad	NO CROSS			
515D335M200BB6AE3	3.3uF 200V 8x12	NO CROSS			
515D335M250CC6AE3	3.3uF 250V 10x12.5 85°C Rad	NO CROSS			
515D335M315CC6AE3	3.3uF 315V 10x12	NO CROSS			
515D335M350CD6AE3	3.3uF 350V 10x16 85°C Rad	NO CROSS			
515D335M400CD6AE3	3.3uF 400V 10x16	NO CROSS			
515D336M010JA6AE3	33uF 10V 5x11 85°C Rad	NO CROSS			
515D336M016JA6AE3	33uF 16V 5x11 85°C Rad	NO CROSS			
515D336M025JA6AE3	33uF 25V 5x11 85°C Rad	NO CROSS			
515D336M035JA6AE3	33uF 35V 5x11 85°C Rad	MAL214251339E3	33µF 50V 5x11mm 105°C 2500h	5 x 11	neuer 142
515D336M050AA6AE3	33uF 50V 6.3x11 85°C Rad	MAL214258339E3	33µF 63V 6,3x11mm 105°C 2500h	6,3 x 11	
515D336M063AA6AE3	33uF 63V 6.3x11 85°C Rad	MAL214258339E3	33µF 63V 6,3x11mm 105°C 2500h	6,3 x 11	
515D336M100CC6AE3	33uF 100V 10x12	MAL214259339E3	33µF 100V 10x12mm 105°C 2500h	10 x 12	
515D336M160DG6AE3	33uF 160V 12.5x20	MAL214253393E3	33µF 250V 12,5x20mm 105°C 2500h	12,5 x 20	250V
515D336M200DK6AE3	33uF 200V 12.5x25	MAL214253393E3	33µF 250V 12,5x20mm 105°C 2500h	12,5 x 20	250V
515D336M250DK6AE3	33uF 250V 12.5x25	MAL214253393E3	33µF 250V 12,5x20mm 105°C 2500h	12,5 x 20	
515D336M315EK6AE3	33uF 315V 16x25	MAL215256339E3	33µF 400V 16x20mm 105°C 4000h	16 x 20	400V
515D336M350EN6AE3	33uF 350V 16x31.5 85°C Rad	MAL214257339E3	33µF 450V 16x25mm 105°C 2500h	16 x 20	450V
515D336M400EN6AE3	33uF 400V 16x31.5 85°C Rad	MAL214257339E3	33µF 450V 16x25mm 105°C 2500h	16 x 20	450V
515D336M450FR6AE3	33uF 450V 18x35.5 85°C Rad	MAL214257339E3	33µF 450V 16x25mm 105°C 2500h	16 x 25	Smaller can, same pitch
515D336M6R3JA6AE3	33uF 6.3V 5x11 85°C Rad	MAL214256339E3	33µF 25V 5X11 105°C 2500h	5 x 11	neuer 142
515D337M010BB6AE3	330uF 10V 8x11.5 85°C Rad	MAL214255331E3	330µF 16V 8x12mm 105°C 2500h	8 x 12	
515D337M016BB6AE3	330uF 16V 8x11.5 85°C Rad	MAL214255331E3	330µF 16V 8x12mm 105°C 2500h	8 x 12	
515D337M025CC6AE3	330uF 25V 10x12.5 85°C Rad	MAL214250331E3	330µF 35V 10x12mm 105°C 2500h	10 x 12	35V, DF 0,12;
515D337M025CC6CE3	330uF 25V 10x12.5 85°C Rad	MAL214260331E3	330µF 35V 10x12mm 105°C 2500h	10 x 12	35V



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PART NUMBER	Description	CROSS PN	Description Cross	Case Size Cross	Remarks
515D337M025CC8PE3	330uF 25V 10x12.5 85°C Rad	MAL214230331E3	330µF 35V 10x12mm 105°C 2500h	10 x 12	35V
515D337M035CD6AE3	330uF 35V 10x16 85°C Rad	NO CROSS			
515D337M050CG6AE3	330uF 50V 10x20 85°C Rad	MAL214251331E3	330µF 50V 10x16mm 105°C 2500h	10 x 16	
515D337M050CG8PE3	330uF 50V 10x20 85°C Rad	MAL214231331E3	330µF 50V 10x16mm 105°C 2500h	10 x 20	I/Ir 1,42
515D337M063DG6AE3	330uF 63V 12.5x20 85°C Rad	MAL214258331E3	330µF 63V 10x20mm 105°C 2500h	10 x 20	Smaller can, same pitch
515D337M100EK6AE3	330uF 100V 16x25 85°C Rad	MAL214259331E3	330µF 100V 16x25mm 105°C 2500h	16 x 25	I/Ir 1,59
515D337M6R3AA6AE3	330uF 6.3V 6.3x11 85°C Rad	MAL214254331E3	330µF 10V 6,3x11mm 105°C 2500h	6,3 x 11	
515D338M010DK6AE3	3300uF 10V 12.5x25 85°C Rad	MAL214255332E3	3300µF 16V 12,5x25mm 105°C 2500h	12,5 x 25	
515D338M016EK6AE3	3300uF 16V 16x25 85°C Rad	MAL214256332E3	3300µF 25V 16x25mm 105°C 2500h	16 x 25	25V
515D338M025EN6AE3	3300uF 25V 16x31.5 85°C Rad	MAL214256332E3	3300µF 25V 16x25mm 105°C 2500h	16 x 25	I/Ir= 1,36 DF = 0,18
515D338M035FR6AE3	3300uF 35V 18x35.5 85°C Rad	MAL214250332E3	3300µF 35V 16x31mm 105°C 2500h	16 x 31	I/Ir 1,56 smaller can, same pitch
515D338M6R3DG6AE3	3300uF 6.3V 12.5x20	NO CROSS			
515D474M050HW6AE3	0.47uF 50V 4x7 85°C Rad	NO CROSS			
515D474M050JA6AE3	0.47uF 50V 5x11 85°C Rad	NO CROSS			
515D474M100JA6AE3	0.47uF 100V 5x11 85°C Rad	NO CROSS			
515D474M160AA6AE3	0.47uF 160V 6.3x11 85°C Rad	NO CROSS			
515D474M200AA6AE3	0.47uF 200V 6.3x11	NO CROSS			
515D474M250AA6AE3	0.47uF 250V 6.3x11 85°C Rad	NO CROSS			
515D475M025JA6AE3	4.7uF 25V 5x11 85°C Rad	MAL214258478E3	4,7µF 63V 5x11mm 105°C 2500h	5 x 11	63V, DF 0,09
515D475M025JA8PE3	4.7uF 25V 5x11 85°C Rad	NO CROSS			
515D475M035JA6AE3	4.7uF 35V 5x11 85°C Rad	MAL214258478E3	4,7µF 63V 5x11mm 105°C 2500h	5 x 11	63V, DF = 0,09
515D475M050JA6AE3	4.7uF 50V 5x11 85°C Rad	MAL214258478E3	4,7µF 63V 5x11mm 105°C 2500h	5 x 11	
515D475M050JA8PE3	4.7uF 50V 5x11 85°C Rad	MAL214238478E3	4,7µF 63V 5x11mm 105°C 2500h	5 x 11	63V
515D475M063JA6AE3	4.7uF 63V 5x11 85°C Rad	MAL214258478E3	4,7µF 63V 5x11mm 105°C 2500h	5 x 11	
515D475M063JA8PE3	4.7uF 63V 5x11 85°C Rad	MAL214238478E3	4,7µF 63V 5x11mm 105°C 2500h	5 x 11	
515D475M100JA6AE3	4.7uF 100V 5x11 85°C Rad	MAL214299475E3	4,7µF 100V 5x11mm 105°C 2500h	5 x 11	neuer 142
515D475M160BB6AE3	4.7uF 160V 8x11.5 85°C Rad	MAL214252478E3	4,7µF 200V 8x12mm 105°C 2500h	8 x 12	200V
515D475M160BB8PE3	4.7uF 160V 8x11.5 85°C Rad	MAL214232478E3	4,7µF 200V 8x12mm 105°C 2500h	8 x 12	200V
515D475M200CC6AE3	4.7uF 200V 10x12	MAL214254785E3	4,7µF 350V 10x12mm 105°C 2500h	10 x 12	350V
515D475M250CC6AE3	4.7uF 250V 10x12.5 85°C Rad				
515D475M315CD6AE3	4.7uF 315V 10x16	MAL214254785E3	4,7µF 350V 10x12mm 105°C 2500h	10 x 12	350V
515D475M350CD6AE3	4.7uF 350V 10x16 85°C Rad	MAL214254785E3	4,7µF 350V 10x12mm 105°C 2500h	10 x 12	
515D475M400CD6AE3	4.7uF 400V 10x20	MAL214254786E3	4,7µF 400V 10x12mm 105°C 2500h	10 x 12	
515D475M450DG6AE3	4.7uF 450V 12.5x20 85°C Rad	MAL214257478E3	4,7µF 450V 10x16mm 105°C 2500h	10 x 16	smaller can, same pitch
515D476M010JA6AE3	47uF 10V 5x11 85°C Rad	MAL214256479E3	47µF 25V 5x11mm 105°C 2500h	5 x 11	25V, DF 0,14
515D476M016JA6AE3	47uF 16V 5x11 85°C Rad	MAL214250479E3	47µF 35V 5x11mm 105°C 2500h	5 x 11	



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PART NUMBER	Description	CROSS PN	Description Cross	Case Size Cross	Remarks
515D476M016JA7KE3	47uF 16V 5x11 85°C Rad	MAL214250479E3	47µF 35V 5x11mm 105°C 2500h	5 x 11	
515D476M016JA8PE3	47uF 16V 5x11 85°C Rad	NO CROSS			
515D476M025JA6AE3	47uF 25V 5x11 85°C Rad	MAL214250479E3	47µF 35V 5x11mm 105°C 2500h	5 x 11	
515D476M025JA8PE3	47uF 25V 5x11 85°C Rad	MAL214236479E3	47µF 25V 5x11mm 105°C 2500h	5 x 11	
515D476M035AA6AE3	47uF 35V 6.3x11 85°C Rad	MAL214251479E3	47µF 50V 6,3x11mm 105°C 2500h	6,3 x 11	
515D476M050AA6AE3	47uF 50V 6.3x11 85°C Rad	MAL214251479E3	47µF 50V 6,3x11mm 105°C 2500h	6,3 x 11	
515D476M050AA6FE3	47uF 50V 6.3x11 85°C Rad	MAL214251479E3	47µF 50V 6,3x11mm 105°C 2500h	6,3 x 11	
515D476M050AA8PE3	47uF 50V 6.3x11 85°C Rad	MAL214231479E3	47µF 50V 6,3x11mm 105°C 2500h	6,3 x 11	
515D476M063BB6AE3	47uF 63V 8x11.5 85°C Rad	MAL214258479E3	47µF 63V 8x12mm 105°C 2500h	8 x 12	
515D476M063BB8PE3	47uF 63V 8x11.5 85°C Rad	MAL214238479E3	47µF 63V 8x12mm 105°C 2500h	8 x 12	350V
515D476M100CD6AE3	47uF 100V 10x16 85°C Rad	MAL214259479E3	47µF 100V 10x16mm 105°C 2500h	10 x 16	
515D476M160DK6AE3	47uF 160V 12.5x25 85°C Rad	MAL214252479E3	47µF 200V 12,5x20mm 105°C 2500h	12,5 x 20	
515D476M200DK6AE3	47uF 200V 12.5x25	MAL214252479E3	47µF 200V 12,5x20mm 105°C 2500h	12,5 x 20	
515D476M250EK6AE3	47uF 250V 16x31.5 85°C Rad	MAL214254795E3	47µF 350V 16x25mm 105°C 2500h	16 x 25	350V
515D476M315EN6AE3	47uF 315V 16x31	MAL214254795E3	47µF 350V 16x25mm 105°C 2500h	16 x 25	400V
515D476M350FR6AE3	47uF 350V 18x35.5 85°C Rad	MAL214254795E3	47µF 350V 16x25mm 105°C 2500h	16 x 25	Smaller can, same pitch
515D476M400FR6AE3	47uF 400V 18x35	MAL214254796E3	47µF 400V 16x31mm 105°C 2500h	16 x 31	Smaller can , same pitch
515D476M6R3JA6AE3	47uF 6.3V 5x11	MAL214256479E3	47µF 25V 5x11mm 105°C 2500h	5 x 11	
515D476M6R3JW6AE3	47uF 6.3V 5x7 85°C Rad	NO CROSS			
515D477M010BB6AE3	470uF 10V 8x11.5 85°C Rad	MAL214254471E3	470µF 10V 8x12mm 105°C 2500h	8 x 12	
515D477M016CC6AE3	470uF 16V 10x12.5 85°C Rad	MAL214255471E3	470µF 16V 10x12mm 105°C 2500h	10 x 12	
515D477M025CD6AE3	470uF 25V 10x16 85°C Rad	MAL214256471E3	470µF 25V 10x12mm 105°C 2500h	10 x 12	
515D477M035CG6AE3	470uF 35V 10x20 85°C Rad	MAL214250471E3	470µF 35V 10x16mm 105°C 2500h	10 x 16	
515D477M035CG8PE3	470uF 35V 10x20 85°C Rad	MAL204830471E3	470µF 35V 10x20mm 105°C 3000h	10 x 20	
515D477M050DG6AE3	470uF 50V 12.5x20 85°C Rad	MAL214251471E3	470µF 50V 12,5x20mm 105°C 2500h	12,5 x 20	
515D477M050DG8PE3	470uF 50V 12.5x20 85°C Rad	MAL214231471E3	470µF 50V 12,5x20mm 105°C 2500h	12,5 x 20	I/Ir 1,44
515D477M063DK6AE3	470uF 63V 12.5x25 85°C Rad	MAL214258471E3	470µF 63V 12,5x20mm 105°C 2500h	12,5 x 20	
515D477M100EN6AE3	470uF 100V 16x31.5 85°C Rad	MAL214259471E3	470µF 100V 16x31mm 105°C 2500h	16 x 31	I/Ir 1,54
515D477M6R3BB6AE3	470uF 6.3V 8x11.5 85°C Rad	MAL214254471E3	470µF 10V 8x12mm 105°C 2500h	8 x 12	
515D477M6R3BB8PE3	470uF 6.3V 8x11.5 Rad	MAL214234471E3	470µF 10V 8x12mm 105°C 2500h	8 x 12	
515D478M010EK6AE3	4700uF 10V 16x25 85°C Rad	MAL214255472E3	4700µF 16V 16x25mm 105°C 2500h	16 x 25	16V
515D478M016EN6AE3	4700uF 16V 16x31.5 85°C Rad	MAL214255472E3	4700µF 16V 16x25mm 105°C 2500h	16 x 25	
515D478M025FR6AE3	4700uF 25V 18x35.5 85°C Rad	MAL214250472E3	4700µF 35V 18x35mm 105°C 2500h	18 x 35	35V
515D478M035FV6AE3	4700uF 35V 18x40 85°C Rad	MAL214250472E3	4700µF 35V 18x35mm 105°C 2500h	18 x 35	
515D478M6R3EK6AE3	4700uF 6.3V 16x25	MAL214255472E3	4700µF 16V 16x25mm 105°C 2500h	16 x 25	16V
515D688M010EN6AE3	6800uF 10V 16x31.5 85°C Rad	MAL214255682E3	6800µF 16V 16x31mm 105°C 2500h	16 x 31	16V
515D688M016FR6AE3	6800uF 16V 18x35.5 85°C Rad	MAL214255682E3	6800µF 16V 16x31mm 105°C 2500h	16 x 31	Smaller can, same pitch
515D688M6R3EK6AE3	6800uF 6.3V 16x25	MAL214254682E3	6800µF 10V 16x25mm 105°C 2500h	16 x 25	10V



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PART NUMBER	Description	CROSS PN	Description Cross	Case Size Cross	Remarks
517D105M050JA6AE3	1uF 50V 5x11 105°C Rad	MAL214258108E3	1μF 63V 5X11mm 105°C 2500h	5 x 11	63V, DF 0,09, neuer 142
517D105M100JA6AE3	1uF 100V 5x11 105°C Rad	MAL214252108E3	1μF 200V 5x11mm 105°C 2500h	5 x 11	200V
517D105M160AA6AE3	1uF 160V 6.3x11 105°C Rad	MAL214251085E3	1μF 350V 6,3x11mm 105°C 2500h	6,3 x 11	350 V
517D105M200AA6AE3	1uF 200V 6.3x11 105°C Rad	MAL214272108E3	1μF 200V 5x11mm 105°C 2500h	5 x 11	
517D105M250AA6AE3	1uF 250V 6.3x11 105°C Rad	MAL214251085E3	1μF 350V 6,3x11mm 105°C 2500h	6,3 x 11	350V
517D106M016JA6AE3	10uF 16V 5x11 105°C Rad	NO CROSS			
517D106M025JA6AE3	10uF 25V 5x11 105°C Rad	MAL214258109E3	10μF 63V 5x11mm 105°C 2500h	5 x 11	63V, DF 0,09
517D106M035JA6AE3	10uF 35V 5x11 105°C Rad	MAL214258109E3	10μF 63V 5x11mm 105°C 2500h	5 x 11	63V, DF 0,09
517D106M050JA6AE3	10uF 50V 5x11 105°C Rad	MAL214258109E3	10μF 63V 5x11mm 105°C 2500h	5 x 11	
517D106M050JA8PE3	10uF 50V 5x11 105°C Rad	MAL214238109E3	10μF 63V 5x11mm 105°C 2500h	5 x 11	
517D106M063JA6AE3	10uF 63V 5x11 105°C Rad	MAL214258109E3	10μF 63V 5x11mm 105°C 2500h	5 x 11	
517D106M100AA6AE3	10uF 100V 6.3x11 105°C Rad	MAL214299105E3	10μF 100V 6.3x11mm 105°C 2500h	6,3 x 11	IR 54mA
517D106M100AA7KE3	10uF 100V 6.3x11 105°C Rad	NO CROSS			
517D106M160CC6AE3	10uF 160V 10x12.5 105°C Rad	MAL214252109E3	10μF 200V 10x12mm 105°C 2500h	10 x 12	
517D106M200CD6AE3	10uF 200V 10x16 105°C Rad	MAL214252109E3	10μF 200V 10x12mm 105°C 2500h	10 x 12	
517D106M250CG6AE3	10uF 250V 10x20 105°C Rad	MAL214251093E3	10μF 250V 10x12mm 105°C 2500h	10 x 12	
517D107M010JA6AE3	100uF 10V 5x11 105°C Rad	MAL214255101E3	100μF 16V 5x11mm 105°C 2500h	5 x 11	
517D107M016AA6AE3	100uF 16V 6.3x11 105°C Rad	MAL214256101E3	100μF 25V 6,3x11mm 105°C 2500h	6,3 x 11	25V
517D107M025AA6AE3	100uF 25V 6.3x11 105°C Rad	MAL214256101E3	100μF 25V 6,3x11mm 105°C 2500h	6,3 x 11	IR 142mA
517D107M025AA8PE3	100uF 25V 6.3x11 105°C Rad	MAL214236101E3	100μF 25V 6,3x11mm 105°C 2500h	6,3 x 11	
517D107M035BB6AE3	100uF 35V 8x11.5 105°C Rad	MAL214251101E3	100μF 50V 8x12mm 105°C 2500h	8 x 12	50V
517D107M050BB6AE3	100uF 50V 8x11.5 105°C Rad	No Cross	100μF 50V 8x12mm 105°C 4000h	8 x 12	Special TNA (Ir 555mA; 142: 188mA, 63V 10x12)
517D107M063CC6AE3	100uF 63V 10x12.5 105°C Rad	MAL215058101E3	100μF 63V 10x12mm 105°C 4000h	10 x 12	DF 0,10
517D107M063CC8PE3	100uF 63V 10x12.5 105°C Rad	MAL204838101E3	100μF 63V 10x12mm 105°C 3000h	10 x 12	Ir 240
517D107M100DG6AE3	100uF 100V 12.5x20 105°C Rad	MAL213659101E3	100μF 100V 12,5x20mm 105°C 7000h	12,5 x 20	
517D107M160EK6AE3	100uF 160V 16x25 105°C Rad				
517D107M200EN6AE3	100uF 200V 16x31.5 105°C Rad	MAL214252101E3	100μF 200V 16x25mm 105°C 2500h	16 x 25	
517D107M250FR6AE3	100uF 250V 18x35.5 105°C Rad	MAL214251013E3	100μF 250V 16x31mm 105°C 2500h	16 x 31	Smaller can same pitch
517D107M6R3JA6AE3	100uF 6.3V 5x11 105°C Rad	MAL214255101E3	100μF 16V 5x11mm 105°C 2500h	5 x 11	16V
517D108M010CD6AE3	1000uF 10V 10x16 105°C Rad	MAL214255102E3	1000μF 16V 10x16mm 105°C 2500h	10 x 16	16V, Ir 560mA
517D108M016CG6AE3	1000uF 16V 10x20 105°C Rad	MAL215055102E3	1000μF 16V 10x20mm 105°C 6000h	10 x 20	
517D108M025DG6AE3	1000uF 25V 12.5x20 105°C Rad	MAL215056102E3	1000μF 25V 12,5x20mm 105°C 7000h	12,5 x 20	
517D108M025DG6SE3	1000uF 25V 12.5x20 105°C Rad	MAL214251102E3	1000μF 50V 12,5x25mm 105°C 2500h	12,5 x 20	50V
517D108M035DK6AE3	1000uF 35V 12.5x25 105°C Rad	MAL215050102E3	1000μF 35V 12,5x25mm 105°C 8000h	12,5 x 25	
517D108M050EK6AE3	1000uF 50V 16x25 105°C Rad	MAL215051102E3	1000μF 50V 16x25mm 105°C 10000h	16 x 25	
517D108M063EN6AE3	1000uF 63V 16x31.5 105°C Rad	MAL215058102E3	1000μF 63V 16x31mm 105°C 10000h	16 x 31	DF 0,10



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517D108M100FV6AE3	1000uF 100V 18x40 105°C Rad	NO CROSS			
517D108M6R3CC6AE3	1000uF 6.3V 10x12.5 105°C Rad	MAL214254102E3	1000µF 10V 10x12mm 105°C 2500h	10 x 12	Ir 460mA, 10V
517D109M010FR6AE3	10000uF 10V 18x35 105°C Rad	MAL214254103E3	10000µF 10V 16x31mm 105°C 2500h	16 x 31	Smaller can, same pitch
517D109M016FV6AE3	10000uF 16V 18x40 105°C Rad	MAL214255103E3	10000µF 16V 18x31mm 105°C 2500h	18 x 31	
517D109M6R3EN6AE3	10000uF 6.3V 16x31 105°C Rad	MAL214254103E3	10000µF 10V 16x31mm 105°C 2500h	16 x 31	
517D159M010FV6AE3	15000uF 10V 18x40 105°C Rad	MAL214854153E3	15000µF 10V 18x35mm 105°C 3000h	18 x 35	
517D159M6R3FR6AE3	15000uF 6.3V 18x35 105°C Rad	MAL214854153E3	15000µF 10V 18x35mm 105°C 3000h	18 x 35	IR 2200mA
517D225M050JA6AE3	2.2uF 50V 5x11 105°C Rad	MAL214259228E3	2,2µF 100V 5x11mm 105°C 2500h	5 x 11	100V, D F0,08
517D225M100JA6AE3	2.2uF 100V 5x11 105°C Rad	MAL214259228E3	2,2µF 100V 5x11mm 105°C 2500h	5 x 11	
517D225M160AA6AE3	2.2uF 160V 6.3x11 105°C Rad	MAL214252228E3	2,2µF 200V 6,3x11mm 105°C 2500h	6,3 x 11	200V, DF 0,14
517D225M200AA6AE3	2.2uF 200V 6.3x11 105°C Rad	MAL214252228E3	2,2µF 200V 6,3x11mm 105°C 2500h	6,3 x 11	
517D225M250BB6AE3	2.2uF 250V 8x11.5 105°C Rad	MAL214252285E3	2,2µF 350V 8x12mm 105°C 2500h	8 x 12	
517D226M010JA6AE3	0.1uF 10V 5x11 105°C Rad	NO CROSS			
517D226M016JA6AE3	22uF 16V 5x11 105°C Rad	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	5 x 11	50V
517D226M025JA6AE3	22uF 25V 5x11 105°C Rad	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	5 x 11	50V, DF 0,10
517D226M035JA6AE3	22uF 35V 5x11 105°C Rad	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	5 x 11	
517D226M050JA6AE3	22uF 50V 5x11 105°C Rad	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	5 x 11	
517D226M063AA6AE3	22uF 63V 6.3x11 105°C Rad	MAL214258229E3	22µF 63V 6,3x11mm 105°C 2500h	6,3 x 11	Ir 86mA
517D226M100BB6AE3	22uF 100V 8x11.5 105°C Rad	MAL215059229E3	22µF 100V 8x12mm 105°C 4000h	8 x 12	
517D226M160CG6AE3	22uF 160V 10x20 105°C Rad	MAL214252229E3	22µF 200V 10x16mm 105°C 2500h	10 x 16	
517D226M200CG6AE3	22uF 200V 10x20 105°C Rad				
517D226M250DK6AE3	22uF 250V 12.5x25 105°C Rad	MAL214252295E3	22µF 350V 12,5x20mm 105°C 2500h	12,5 20	
517D226M6R3JA6AE3	22uF 6.3V 5x11 105°C Rad	NO CROSS			
517D227M010AA6AE3	220uF 10V 6.3x11 105°C Rad	MAL214255221E3	220µF 16V 6,3x11mm 105°C 2500h	6,3 x 11	
517D227M016BB6AE3	220uF 16V 8x11.5 105°C Rad	MAL214256221E3	220µF 25V 8x12mm 105°C 2500h	8 x 12	
517D227M025BB6AE3	220uF 25V 8x11.5 105°C Rad	MAL214256221E3	220µF 25V 8x12mm 105°C 2500h	8 x 12	IR 236 mA
517D227M035CC6AE3	220uF 35V 10x12.5 105°C Rad	MAL215050221E3	220µF 35V 10x12mm 105°C 4000h	10 x 12	
517D227M035CC8PE3	220uF 35V 10x12.5 105°C Rad	MAL204830221E3	220µF 35V 10x12mm 105°C 3000h	10 x 12	Ir 310mA
517D227M050CD6AE3	220uF 50V 10x16 105°C Rad	MAL215051221E3	220µF 50V 10x16mm 105°C 6000h	10 x 16	
517D227M050CD8PE3	220uF 50V 10x16 105°C Rad	MAL204831221E3	220µF 50V 10x16mm 105°C 3000h	10 x 16	Ir 340mA
517D227M063CG6AE3	220uF 63V 10x20 105°C Rad	MAL215058221E3	220µF 63V 10x20mm 105°C 6000h	10 x 20	DF 0,10
517D227M100EK6AE3	220uF 100V 16x25 105°C Rad	MAL214899225E3	220µF 100V 16x20mm 105°C 3000h	16 x 20	
517D227M160FR6AE3	220uF 160V 18x35.5 105°C Rad				
517D227M200FV6AE3	220uF 200V 18x40 105°C Rad	MAL214252221E3	220µF 200V 18x35mm 105°C 2500h	18 x 35	
517D227M6R3AA6AE3	220uF 6.3V 6.3x11 105°C Rad	MAL214255221E3	220µF 16V 6,3x11mm 105°C 2500h	6,3 x 11	
517D228M010DG6AE3	2200uF 10V 12.5x20 105°C Rad	MAL215054222E3	2200µF 10V 12,5x20mm 105°C 7000h	12,5 x 20	
517D228M016DK6AE3	2200uF 16V 12.5x25 105°C Rad	MAL214256222E3	2200µF 25V 12,5x25mm 105°C 2500h	12,5 x 25	25V, Ir 1140mA
517D228M025EK6AE3	2200uF 25V 16x25 105°C Rad	MAL215056222E3	2200µF 25V 16x20mm 105°C 7000h	16 x 20	



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PART NUMBER	Description	CROSS PN	Description Cross	Case Size Cross	Remarks
517D228M035EN6AE3	2200uF 35V 16x31.5 105°C Rad	MAL214251222E3	2200µF 50V 16x35mm 105°C 2500h	16 x 35	50 V, higher can
517D228M050FR6AE3	2200uF 50V 18x35.5 105°C Rad	MAL214251222E3	2200µF 50V 16x35mm 105°C 2500h	16 x 35	Smaller can, same pitch, Ir 1470mA
517D228M063FV6AE3	2200uF 63V 18x40 105°C Rad	MAL214268222E3	2200µF 63V 18x40mm 105°C 2500h	18 x 40	
517D228M6R3DG6AE3	2200uF 6.3V 12.5x20 105°C Rad	MAL214255222E3	2200µF 16V 12,5x20mm 105°C 2500h	12,5 x 20	16V, Ir 920mA
517D335M050JA6AE3	3.3uF 50V 5x11 105°C Rad	MAL214258338E3	3,3µF 50V 5x11mm 105°C 2500h	5 x 11	neuer 142
517D335M100JA6AE3	3.3uF 100V 5x11 105°C Rad	NO CROSS			
517D335M100JA7KE3	3.3uF 100V 5x11 105°C Rad	NO CROSS			
517D335M160BB6AE3	3.3uF 160V 8x12 105°C Rad	NO CROSS			
517D335M200BB6AE3	3.3uF 200V 8x12 105°C Rad	NO CROSS			
517D335M250CC6AE3	3.3uF 250V 10x12 105°C Rad	NO CROSS			
517D336M010JA6AE3	33uF 10V 5x11 105°C Rad	NO CROSS			
517D336M016JA6AE3	33uF 16V 5x11 105°C Rad	MAL214256339E3	33µF 16V 5x11mm 105°C 2500h	5 x 11	neuer 142
517D336M025JA6AE3	33uF 25V 5x11 105°C Rad	MAL214251339E3	33µF 50V 5x11mm 105°C 2500h	5 x 11	neuer 142
517D336M035JA6AE3	33uF 35V 5x11 105°C Rad	NO CROSS			
517D336M050AA6AE3	33uF 50V 6.3x11 105°C Rad	MAL214258339E3	33µF 63V 6,3x11mm 105°C 2500h	6,3 x 11	Lower Ir 100mA / 100Hz
517D336M050AA7KE3	33uF 50V 6.3x11 105°C Rad	MAL214258339E3	33µF 63V 6,3x11mm 105°C 2500h	6,3 x 11	Ir 100mA
517D336M050M6AE3	33uF 50V 6.3x11 105°C Rad	MAL214258339E3	33µF 63V 6,3x11mm 105°C 2500h	6,3 x 11	63V Ir: 100mA
517D336M063AA6AE3	33uF 63V 6.3x11 105°C Rad	MAL214258339E3	33µF 63V 6,3x11mm 105°C 2500h	6,3 x 11	Ir 100mA
517D336M100CC6AE3	33uF 100V 10x12.5 105°C Rad	MAL214259339E3	33µF 100V 10x12mm 105°C 2500h	10 x 12	Ir 148mA
517D336M160DG6AE3	33uF 160V 12.5x20 105°C Rad	MAL214253393E3	33µF 250V 12,5x20mm 105°C 2500h	12,5 x 20	250V
517D336M200DK6AE3	33uF 200V 12.5x25 105°C Rad	MAL214253393E3	33µF 250V 12,5x20mm 105°C 2500h	12,5 x 20	250V
517D336M250DK6AE3	33uF 250V 12.5x25 105°C Rad	MAL214253393E3	33µF 250V 12,5x20mm 105°C 2500h	12,5 x 20	
517D336M6R3JA6AE3	33uF 6.3V 5x11 105°C Rad	NO CROSS			
517D337M010BB6AE3	330uF 10V 8x12 105°C Rad	MAL214255331E3	330µF 16V 8x12mm 105°C 2500h	8 x 12	
517D337M016BB6AE3	330uF 16V 8x11.5 105°C Rad	MAL214256331E3	330µF 25V 8 x 12mm 105°C 2500h	8 x 12	25V neuer 142
517D337M025CC6AE3	330uF 25V 10x12.5 105°C Rad	MAL215056331E3	330µF 25V 10x12mm 105°C 4000h	10 x 12	
517D337M035CD6AE3	330uF 35V 10x16 105°C Rad	MAL214251331E3	330µF 50V 10x16mm 105°C 2500h	10 x 16	50V Ir 410mA
517D337M050CG6AE3	330uF 50V 10x20 105°C Rad	MAL214258331E3	330µF 63V 10x20mm 105°C 2500h	10 x 20	63V Ir: 510mA
517D337M063DG6AE3	330uF 63V 12.5x20 105°C Rad	MAL215058331E3	330µF 63V 12,5x20mm 105°C 7000h	12,5 x 20	
517D337M100EK6AE3	330uF 100V 16x25 105°C Rad	MAL213659331E3	330µF 100V 16x31mm 105°C 10000h	16 x 31	Higher
517D337M6R3AA6AE3	330uF 6.3V 6.3x11 105°C Rad	MAL214254331E3	330µF 10V 6,3x11mm 105°C 2500h	6,3 x 11	10V
517D338M010DK6AE3	3300uF 10V 12.5x25 105°C Rad	MAL215054332E3	3300µF 10V 12,5x25mm 105°C 8000h	12,5 x 25	
517D338M016EK6AE3	3300uF 16V 16x25 105°C Rad	MAL215055332E3	3300µF 16V 16x20mm 105°C 7000h	16 x 20	
517D338M025EN6AE3	3300uF 25V 16x31 105°C Rad	MAL214256332E3	3300µF 25V 16x25mm 105°C 2500h	16 x 25	Ir 1440mA
517D338M035FR6AE3	3300uF 35V 18x35.5 105°C Rad	MAL214251332E3	3300µF 50V 18x35mm 105°C 2500h	18 x 35	50V



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PART NUMBER	Description	CROSS PN	Description Cross	Case Size Cross	Remarks
517D338M6R3DG6AE3	3300uF 6.3V 12.5x20 105°C Rad	MAL214854332E3	3300µF 10V 12,5x20mm 105°C 3000h	12,5 x 20	
517D474M050JA6AE3	0.47uF 50V 5x11 105°C Rad	NO CROSS			
517D474M100JA6AE3	0.47uF 100V 5x11 105°C Rad	NO CROSS			
517D474M160AA6AE3	0.47uF 160V 6.3x11 105°C Rad	NO CROSS			
517D474M200AA6AE3	0.47uF 200V 6.3x11 105°C Rad	NO CROSS			
517D474M250AA6AE3	0.47uF 250V 6.3x11 105°C Rad	NO CROSS			
517D475M025JA6AE3	4.7uF 25V 5x11 105°C Rad	MAL214258478E3	4,7µF 63V 5x11mm 105°C 2500h	5 x 11	63V
517D475M035JA6AE3	4.7uF 35V 5x11 105°C Rad	MAL214258478E3	4,7µF 63V 5x11mm 105°C 2500h	5 x 11	63V
517D475M050JA6AE3	4.7uF 50V 5x11 105°C Rad	MAL214258478E3	4,7µF 63V 5x11mm 105°C 2500h	5 x 11	63V
517D475M063JA6AE3	4.7uF 63V 5x11 105°C Rad	MAL214258478E3	4,7µF 63V 5x11mm 105°C 2500h	5 x 11	
517D475M100JA6AE3	4.7uF 100V 5x11 105°C Rad	NO CROSS			
517D475M160BB6AE3	4.7uF 160V 8x11.5 105°C Rad	MAL214252478E3	4,7µF 200V 8x12mm 105°C 2500h	8 x 12	200V
517D475M200CC6AE3	4.7uF 200V 10x12.5 105°C Rad	MAL214254785E3	4,7µF 350V 10x12mm 105°C 2500h	10 x 12	350V
517D475M250CC6AE3	4.7uF 250V 10x12.5 105°C Rad	MAL214254785E3	4,7µF 350V 10x12mm 105°C 2500h	10 x 12	350V
517D476M010JA6AE3	47uF 10V 5x11 105°C Rad	MAL214256479E3	47µF 25V 5x11mm 105°C 2500h	5 x 11	25V
517D476M016JA6AE3	47uF 16V 5x11 105°C Rad	MAL214256479E3	47µF 25V 5x11mm 105°C 2500h	5 x 11	
517D476M025JA6AE3	47uF 25V 5x11 105°C Rad	MAL214256479E3	47µF 25V 5x11mm 105°C 2500h	5 x 11	
517D476M035AA6AE3	47uF 35V 6.3x11 105°C Rad	MAL214251479E3	47µF 50V 6,3x11mm 105°C 2500h	6,3 x 11	50V
517D476M050AA6AE3	47uF 50V 6.3x11 105°C Rad	MAL214298475E3	47µF 63V 6,3x11mm 105°C 2500h	6,3 x 11	neuer 142
517D476M063BB6AE3	47uF 63V 8x11.5 105°C Rad	MAL214258479E3	47µF 63V 8x12mm 105°C 2500h	8 x 12	
517D476M100CD6AE3	47uF 100V 10x16 105°C Rad	MAL213659479E3	47µF 100V 10x16mm 105°C 6000h	10 x 16	136 RVI Serie
517D476M160DK6AE3	47uF 160V 12.5x25 105°C Rad	MAL214252479E3	47µF 200V 12,5x20mm 105°C 2500h	12,5 x 20	
517D476M200DK6AE3	47uF 200V 12.5x25 105°C Rad	MAL214252479E3	47µF 200V 12,5x20mm 105°C 2500h	12,5 x 20	
517D476M250EK6AE3	47uF 250V 16x25 105°C Rad	MAL214254795E3	47µF 350V 16x25mm 105°C 2500h	16 x 25	350V
517D476M6R3JA6AE3	47uF 6.3V 5x11 105°C Rad	MAL214256479E3	47µF 25V 5x11mm 105°C 2500h	5 x 11	25V
517D477M010BB6AE3	470uF 10V 8x12 105°C Rad	MAL214295475E3	470µF 16V 8x12mm 105°C 2500h	8 x 12	16V, 10V: Ir 290mA
517D477M016CC6AE3	470uF 16V 10x12.5 105°C Rad	MAL215055471E3	470µF 16V 10x12mm 105°C 4000h	10 x 12	
517D477M016CC8PE3	470uF 16V 10x12.5 105°C Rad	MAL214235471E3	470µF 16V 10x12mm 105°C 2500h	10 x 16	Ir 370mA
517D477M025CD6AE3	470uF 25V 10x16 105°C Rad	MAL215056471E3	470µF 25V 10x16mm 105°C 6000h	10 x 16	
517D477M035CG6AE3	470uF 35V 10x20 105°C Rad	MAL215050471E3	470µF 35V 10x20mm 105°C 6000h	10 x 20	
517D477M035CG8PE3	470uF 35V 10x20 105°C Rad	MAL214831471E3	470µF 50V 10x20mm 105°C 2000h	10 x 20	Ir 530mA
517D477M050DG6AE3	470uF 50V 12.5x20 105°C Rad	MAL215051471E3	470µF 50V 12,5x20mm 105°C 7000h	12,5 x 20	
517D477M063DK6AE3	4700uF 63V 12.5x25 105°C Rad	MAL204858471E3	470µF 63V 12,5x25mm 105°C 3000h	12,5 x 20	
517D477M100EN6AE3	470uF 100V 16x31.5 105°C Rad	MAL213659471E3	470µF 100V 16x35mm 105°C 10000h	16 x 35	
517D477M6R3BB6AE3	470uF 6.3V 8x12 105°C Rad	MAL214254471E3	470µF 10V 8x12mm 105°C 2500h	8 x 12	10V
517D478M010EK6AE3	4700uF 10V 16x25 105°C Rad	MAL215054472E3	4700µF 10V 16x25mm 105°C 10000h	16 x 25	
517D478M016EN6AE3	4700uF 16V 16x31.5 105°C Rad	MAL214255472E3	4700µF 16V 16x25mm 105°C 2500h	16 x 25	Ir 1480mA
517D478M025FR6AE3	4700uF 25V 18x35.5 105°C Rad	MAL214256472E3	4700µF 25V 16x31mm 105°C 2500h	16 x 31	Smaller can, same pitch
517D478M035FV6AE3	4700uF 35V 18x40 105°C Rad	MAL214250472E3	4700µF 35V 18x35mm 105°C 2500h	18 x 35	Ir 1900mA
517D478M6R3EK6AE3	4700uF 6.3V 16x25 105°C Rad	MAL215054472E3	4700µF 10V 16x25mm 105°C 10000h	16 x 25	



Replacement Table
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PART NUMBER	Description	CROSS PN	Description Cross	Case Size Cross	Remarks
517D688M010EN6AE3	6800uF 10V 16x31.5 105°C Rad	MAL214254682E3	6800µF 10V 16x25mm 105°C 2500h	16 x 25	
517D688M016FR6AE3	6800uF 16V 18x35 105°C Rad	MAL214255682E3	6800µF 16V 16x31mm 105°C 2500h	16 x 31	Smaller can, same pitch
517D688M6R3EK6AE3	6800uF 6.3V 16x25 105°C Rad	MAL214254682E3	6800µF 10V 16x25mm 105°C 2500h	16 x 25	