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Product Termination Notification

Product Group: AC/Thu Jun 22, 2023/PTN-AC-00502-2023-REV-0



Discontinuance of Radial Series 013 RLC, 036 RSP and 116 RLL with case size 5x11 mm.

For further information, please contact your regional Vishay office.

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Description of Change: Termination of Vishay BCcomponents Series 013 RLC, 036 RSP and 116 RLL with case size 5x11 mm.

Affected part numbers: all PNs with case size 5x11mm within these families, whether listed or not.

Classification of 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 BCcomponents

Time Schedule:

Last Time Buy Date: Fri Jun 28, 2024

Last Time Ship Date: Thu Jan 2, 2025

Sample Availability: -

Product Identification: -

Qualification Data: -

This PTN is considered approved, without further notification, unless we receive specific customer concerns before Sat Jul 22, 2023 or as specified by contract.

Issued By: Alexander Wolf, alexander.wolf@vishay.com



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MAL201331229E3	MAL201331338E3	MAL201334101E3	MAL201334479E3	MAL201334689E3
MAL201335339E3	MAL201335479E3	MAL201336228E3	MAL201336338E3	MAL203638688E3
MAL201350339E3	MAL201351228E3	MAL201351338E3	MAL201351478E3	MAL203690098E3
MAL201354479E3	MAL201354689E3	MAL201355339E3	MAL201355479E3	MAL201356109
MAL201356228	MAL201356228E3	MAL201356478E3	MAL211631229E3	MAL201371109
MAL201371229	MAL201371338E3	MAL201374101	MAL201336229E3	MAL201375339E3
MAL201375479E3	MAL201376109E3	MAL201376228E3	MAL201376338E3	MAL201376478E3
MAL201390311E3	MAL201390312E3	MAL201390313E3	MAL201390314E3	MAL201390315E3
MAL201390316E3	MAL201390318E3	MAL201390321E3	MAL201390323E3	MAL201390324E3
MAL201390325E3	MAL201390326	MAL201390328	MAL201390328E3	MAL201390329E3
MAL201390331E3	MAL201390333E3	MAL201390334E3	MAL201390336E3	MAL201390337E3
MAL201390342E3	MAL201390343E3	MAL201390344E3	MAL201390345E3	MAL201390346E3
MAL201390347E3	MAL201390351E3	MAL201390352E3	MAL201390353E3	MAL201390357E3
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MAL211630339E3	MAL211637339E3	MAL203635101E3	MAL203690235E3	MAL203690252E3
MAL211636479E3	MAL201336109E3	MAL201331109E3	MAL203690028E3	MAL203638109E3
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MAL203616689E3	MAL203633101E3	MAL203634151E3	MAL203634479E3	MAL211651229E3
MAL203635339E3	MAL203690104E3	MAL203637159E3	MAL203638159E3	MAL203638338E3
MAL201354101E3	MAL203655101E3	MAL203654151E3	MAL203654479E3	MAL203655339E3
MAL203656689E3	MAL203657159E3	MAL203658159E3	MAL203677159E3	MAL203658338E3
MAL203658688E3	MAL203653101E3	MAL203668229E3	MAL203673101E3	MAL203674151E3
MAL211654101E3	MAL203675339E3	MAL203676689E3	MAL211656479E3	MAL203678159E3
MAL203678228E3	MAL203678338E3	MAL203678688E3	MAL201356109E3	MAL203690002E3
MAL203690002V	MAL203690003E3	MAL203690004V	MAL203690005E3	MAL203690005V
MAL203690006E3	MAL201351109E3	MAL203690016E3	MAL203690017E3	MAL203690026E3
MAL203690004E3	MAL203690027V	MAL203690028V	MAL203658109E3	MAL203690046E3
MAL203690047E3	MAL203690048E3	MAL203690049E3	MAL203690051E3	MAL203690052E3
MAL203690053E3	MAL203690054E3	MAL203690055E3	MAL203690056E3	MAL203690057E3
MAL203690058E3	MAL203690059E3	MAL203690061E3	MAL203690062E3	MAL203690063E3
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MAL203690069E3	MAL203690073E3	MAL203690074E3	MAL203690077E3	MAL203690078E3
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MAL203690097E3	MAL203690343E3	MAL203690105E3	MAL203690106E3	MAL203690107E3
MAL203690108E3	MAL203690114E3	MAL203690119E3	MAL203690121E3	MAL203690122E3
MAL203690123E3	MAL203690124E3	MAL203690125E3	MAL203690127E3	MAL203690128E3
MAL203690131E3	MAL203690132E3	MAL203690133E3	MAL203690134E3	MAL203690135E3
MAL203690136E3	MAL203690141E3	MAL203690143E3	MAL203690147E3	MAL203690148E3
MAL203690149E3	MAL203690152V	MAL203690153E3	MAL203690155E3	MAL203690156E3
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MAL203690177E3	MAL203690178E3	MAL203690179E3	MAL203690183E3	MAL203690184E3
MAL203690185E3	MAL203690186E3	MAL203690187E3	MAL203690191E3	MAL203690193E3
MAL203690194E3	MAL203690196E3	MAL203690197E3	MAL203690204E3	MAL203690205E3
MAL203690206E3	MAL203690207E3	MAL203690215E3	MAL203690216E3	MAL203690217E3
MAL203690218E3	MAL203690219E3	MAL203690221E3	MAL203690222E3	MAL203690226E3
MAL203690227E3	MAL203690228E3	MAL203690229E3	MAL203690231E3	MAL203690232E3
MAL203690234E3	MAL203690236E3	MAL203690237E3	MAL203690238E3	MAL203690239E3
MAL203690242E3	MAL203690243E3	MAL203690245E3	MAL203690246E3	MAL203690249E3
MAL203690251E3	MAL203690253E3	MAL203690256E3	MAL203690257E3	MAL203690262E3
MAL203690265	MAL203690265E3	MAL203690274E3	MAL203690279E3	MAL203690281E3
MAL203690282	MAL203690283	MAL203690284	MAL203690293E3	MAL203690295E3
MAL203690303E3	MAL203690304E3	MAL203690306E3	MAL203690307E3	MAL203690309E3
MAL203690311E3	MAL203690312E3	MAL203690315E3	MAL203690317E3	MAL203690318E3



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MAL203690319E3	MAL203690321E3	MAL203690322E3	MAL203690323E3	MAL203690324E3
MAL203690325E3	MAL203690326E3	MAL203690344E3	MAL203690346E3	MAL203690348E3
MAL203690349E3	MAL203690352E3	MAL203690353E3	MAL203690354E3	MAL203690355E3
MAL203690356E3	MAL203690357E3	MAL203690359E3	MAL203690365E3	MAL211651109E3
MAL203690372E3	MAL203690373E3	MAL203690375E3	MAL203690378E3	MAL203690384E3
MAL203690385E3	MAL203690388E3	MAL211690121E3	MAL203690389V	MAL201356338E3
MAL203690391V	MAL211651478E3	MAL203690392V	MAL203690393	MAL203690394E3
MAL203690395E3	MAL203690398E3	MAL203690399E3	MAL203658478E3	MAL203690407E3
MAL203690408E3	MAL203690409E3	MAL203690411E3	MAL203690415E3	MAL203690416E3
MAL203690422	MAL203690423E3	MAL203692003E3	MAL203692004E3	MAL203692005E3
MAL203658228E3	MAL211651228E3	MAL203690391E3	MAL203690198E3	MAL203690405E3
MAL203636689E3	MAL201376229E3	MAL201371229E3	MAL211671229E3	MAL201370339E3
MAL203690393E3	MAL203688109E3	MAL211670339E3	MAL211651158E3	MAL201374101E3
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MAL211671338E3	MAL201371478E3	MAL203678478E3	MAL203690137E3	MAL211671478E3
MAL201371228E3	MAL201374689E3	MAL211611109E3	MAL211611338E3	MAL211621228E3
MAL211621229E3	MAL211631158E3	MAL211631159E3	MAL211631338E3	MAL211633151E3
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MAL211690021E3	MAL211690022E3	MAL211690028E3	MAL211690034	MAL203638229E3
MAL211690046E3	MAL211690058E3	MAL211690059E3	MAL211690062E3	MAL211690063E3
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MAL211690073E3	MAL211690075E3	MAL211690076E3	MAL211690078E3	MAL211690079E3
MAL211690088E3	MAL211690092E3	MAL211690095E3	MAL211690097E3	MAL211690098E3
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MAL211690139E3	MAL211690141E3	MAL211690142E3	MAL211690147E3	MAL211690148E3
MAL211690149E3	MAL211675689E3	MAL211690156E3	MAL211690161E3	MAL211690163
MAL211690166E3	MAL211690168E3	MAL211690171E3	MAL203678229E3	MAL211690173E3



Replacement Table
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Series	Part Number	Description		Part Number Crossing*	Description Crossing	Remarks
013	MAL201330339E3	33µF 35V 5x11mm 85°C 3000h	→	MAL214231339E3	33µF 50V 5x11mm 105°C 2500h	50V
013	MAL201331109E3	10µF 50V 5x11mm 85°C 3000h	→	MAL214238109E3	10µF 63V 5x11mm 105°C 2500h	63V
013	MAL201331228E3	2,2µF 50V 5x11mm 85°C 3000h	→	MAL214239228E3	2,2µF 100V 5x11mm 105°C 2500h	100V
013	MAL201331478E3	4,7µF 50V 5x11mm 85°C 3000h	→	MAL214238478E3	4,7µF 63V 5x11mm 105°C 2500h	63V
013	MAL201336109E3	10µF 25V 5x11mm 85°C 3000h	→	MAL214238109E3	10µF 63V 5x11mm 105°C 2500h	63V
013	MAL201336229E3	22µF 25V 5x11mm 85°C 3000h	→	MAL214231229E3	22µF 50V 5x11mm 105°C 2500h	50V
013	MAL201336478E3	4,7µF 25V 5x11mm 85°C 3000h	→	MAL214238478E3	4,7µF 63V 5x11mm 105°C 2500h	63V
013	MAL201351109E3	10µF 50V 5x11mm 85°C 3000h	→	MAL214258109E3	10µF 63V 5x11mm 105°C 2500h	63V / pitch 2.0mm / MAL214278109E3 pitch 2.5mm
013	MAL201351229E3	22µF 50V 5x11mm 85°C 3000h	→	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	pitch 2.0mm / MAL214271229E3 pitch 2.5mm
013	MAL201354101E3	100µF 10V 5x11mm 85°C 3000h	→	MAL214255101E3	100µF 16V 5x11mm 105°C 2500h	16V / pitch 2.0mm / MAL214275101E3 pitch 2.5mm
013	MAL201356109E3	10µF 25V 5x11mm 85°C 3000h	→	MAL214258109E3	10µF 63V 5x11mm 105°C 2500h	63V / pitch 2.0mm / MAL214278109E3 pitch 2.5mm
013	MAL201356229E3	22µF 25V 5x11mm 85°C 3000h	→	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	50V / pitch 2.0mm / MAL214271229E3 pitch 2.5mm
013	MAL201356338E3	3,3µF 25V 5x11mm 85°C 3000h	→	MAL214258338E3	3,3µF 63V 5x11mm 105°C 2500h	63V / pitch 2.0mm / MAL214278338E3 pitch 2.5mm
013	MAL201371109E3	10µF 50V 5x11mm 85°C 3000h	→	MAL214278109E3	10µF 63V 5x11mm 105°C 2500h	63V
013	MAL201371228E3	2,2µF 50V 5x11mm 85°C 3000h	→	MAL214279228E3	2,2µF 100V 5x11mm 105°C 2500h	100V
013	MAL201371229E3	22µF 50V 5x11mm 85°C 3000h	→	MAL214271229E3	22µF 50V 5x11mm 105°C 2500h	
013	MAL201371478E3	4,7µF 50V 5x11mm 85°C 3000h	→	MAL214278478E3	4,7µF 63V 5x11mm 105°C 2500h	63V
013	MAL201374479E3	47µF 10V 5x11mm 85°C 3000h	→	MAL214276479E3	47µF 25V 5x11mm 105°C 2500h	25V
013	MAL201374689E3	68µF 10V 5x11mm 85°C 3000h	→	No Cross		
013	MAL201376229E3	22µF 25V 5x11mm 85°C 3000h	→	MAL214271229E3	22µF 50V 5x11mm 105°C 2500h	50V
013	MAL201390326E3	10µF 50V 5x11mm 85°C 2000h	→	MAL214238109E3	10µF 63V 5x11mm 105°C 2500h	63V / Standard part, Tol. +-20%
036	MAL203635101E3	100µF 16V 5x11mm 85°C 3000h	→	MAL214235101E3	100µF 16V 5x11mm 105°C 2500h	
036	MAL203636689E3	68µF 25V 5x11mm 85°C 3000h	→	No Cross		
036	MAL203638109E3	10µF 63V 5x11mm 85°C 3000h	→	MAL214238109E3	10µF 63V 5x11mm 105°C 2500h	
036	MAL203638228E3	2,2µF 63V 5x11mm 85°C 3000h	→	MAL214239228E3	2,2µF 100V 5x11mm 105°C 2500h	100V
036	MAL203638229E3	22µF 63V 5x11mm 85°C 3000h	→	MAL214298223E3	22µF 63V 5x11mm 105°C 2500h	
036	MAL203638478E3	4,7µF 63V 5x11mm 85°C 3000h	→	MAL214238478E3	4,7µF 63V 5x11mm 105°C 2500h	63V
036	MAL203638688E3	6,8µF 63V 5x11mm 85°C 3000h	→	MAL214238688E3	6,8µF 63V 5x11mm 105°C 2500h	
036	MAL203653101E3	100µF 6,3V 5x11mm 85°C 3000h	→	MAL214255101E3	100µF 16V 5x11mm 105°C 2500h	16V / Pitch 2.0mm / MAL214275101E3 Pitch 2.5mm
036	MAL203655101E3	100µF 16V 5x11mm 85°C 3000h	→	MAL214255101E3	100µF 16V 5x11mm 105°C 2500h	Pitch 2.0mm / MAL214275101E3 Pitch 2.5mm
036	MAL203658109E3	10µF 63V 5x11mm 85°C 3000h	→	MAL214258109E3	10µF 63V 5x11mm 105°C 2500h	Pitch 2.0mm / MAL214278109E3 Pitch 2.5mm
036	MAL203658228E3	2,2µF 63V 5x11mm 85°C 3000h	→	MAL214259228E3	2,2µF 100V 5x11mm 105°C 2500h	100V / Pitch 2.0mm / MAL214279228E3 Pitch 2.5mm
036	MAL203658229E3	22µF 63V 5x11mm 85°C 3000h	→	MAL214298225E3	22µF 63V 5x11mm 105°C 2500h	Pitch 2.0mm / MAL214298227E3 Pitch 2.5mm
036	MAL203658478E3	4,7µF 63V 5x11mm 85°C 3000h	→	MAL214258478E3	4,7µF 63V 5x11mm 105°C 2500h	Pitch 2.0mm / MAL214278478E3 Pitch 2.5mm
036	MAL203675101E3	100µF 16V 5x11mm 85°C 3000h	→	MAL214275101E3	100µF 16V 5x11mm 105°C 2500h	
036	MAL203677159E3	15µF 40V 5x11mm 85°C 3000h	→	No Cross		
036	MAL203678109E3	10µF 63V 5x11mm 85°C 3000h	→	MAL214278109E3	10µF 63V 5x11mm 105°C 2500h	
036	MAL203678229E3	22µF 63V 5x11mm 85°C 3000h	→	MAL214298227E3	22µF 63V 5x11mm 105°C 2500h	
036	MAL203678478E3	4,7µF 63V 5x11mm 85°C 3000h	→	MAL214278478E3	4,7µF 63V 5x11mm 105°C 2500h	
036	MAL203688109E3	10µF 63V 5x11mm 85°C 3000h	→	MAL214258109E3	10µF 63V 5x11mm 105°C 2500h	CA Pitch 2.0mm, Standard Part: +-20%, Form TNA
036	MAL203690001E3	22µF 35V 5x11mm 85°C 3000h	→	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	50V / Pitch 2.0mm / MAL214271229E3 Pitch 2.5mm
036	MAL203690004E3	10µF 50V 5x11mm 85°C 3000h	→	MAL214258109E3	10µF 63V 5x11mm 105°C 2500h	63V / Pitch 2.0mm / MAL214278109E3 Pitch 2.5mm
036	MAL203690028E3	10µF 50V 5x11mm 85°C 3000h	→	MAL214238109E3	10µF 63V 5x11mm 105°C 2500h	63V
036	MAL203690094E3	47µF 35V 5x11mm 85°C 3000h	→	MAL214250479E3	47µF 35V 5x11mm 105°C 2500h	Pitch 2.0mm / MAL214270479E3 Pitch 2.5mm
036	MAL203690098E3	47µF 35V 5x11mm 85°C 3000h	→	MAL214230479E3	47µF 35V 5x11mm 105°C 2500h	
036	MAL203690104E3	33µF 50V 5x11mm 85°C 3000h	→	MAL214251339E3	33µF 50V 5x11mm 105°C 2500h	Pitch 2.0mm / MAL214271339E3 Pitch 2.5mm
036	MAL203690137E3	4,7µF 63V 5x11mm 85°C 3000h	→	MAL214278478E3	4,7µF 63V 5x11mm 105°C 2500h	Standard Part: +-20%, Form TNA
036	MAL203690198E3	47µF 35V 5x11mm 85°C 3000h	→	MAL214270479E3	47µF 35V 5x11mm 105°C 2500h	Standard Part: +-20%, Form TNA
036	MAL203690235E3	100µF 16V 5x11mm 85°C 3000h	→	MAL214235101E3	100µF 16V 5x11mm 105°C 2500h	Standard Part: +-20%, Form TFA
036	MAL203690252E3	47µF 16V 5x11mm 85°C 3000h	→	MAL214236479E3	47µF 25V 5x11mm 105°C 2500h	25V / Standard Part: +-20%, Form TFA
036	MAL203690343E3	10µF 50V 5x11mm 85°C 3000h	→	MAL214258109E3	10µF 63V 5x11mm 105°C 2500h	63V / Pitch 2.0mm / MAL21428109 Pitch 2.5mm / +-20%
036	MAL203690391E3	47µF 35V 5x11mm 85°C 3000h	→	MAL214270479E3	47µF 35V 5x11mm 105°C 2500h	



Replacement Table
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036	MAL203690392E3	10µF 50V 5x11mm 85°C 3000h	→	MAL214278109E3	10µF 63V 5x11mm 105°C 2500h	63V
036	MAL203690393E3	33µF 50V 5x11mm 85°C 3000h	→	MAL214271339E3	33µF 50V 5x11mm 105°C 2500h	
036	MAL203690405E3	47µF 35V 5x11mm 85°C 3000h	→	MAL214270479E3	47µF 35V 5x11mm 105°C 2500h	Standard Part: +20%, Form TNA
116	MAL211630339E3	33µF 35V 5x11mm 105°C 2000h	→	MAL214231339E3	33µF 50V 5x11mm 105°C 2500h	50V
116	MAL211631109E3	10µF 50V 5x11mm 105°C 2000h	→	MAL214238109E3	10µF 63V 5x11mm 105°C 2500h	63V
116	MAL211631228E3	2,2µF 50V 5x11mm 105°C 2000h	→	MAL214239228E3	2,2µF 100V 5x11mm 105°C 2500h	100V / lower ripple current
116	MAL211631229E3	22µF 50V 5x11mm 105°C 2000h	→	MAL214231229E3	22µF 50V 5x11mm 105°C 2500h	
116	MAL211631478E3	4,7µF 50V 5x11mm 105°C 2000h	→	MAL214238478E3	4,7µF 63V 5x11mm 105°C 2500h	63V / lower ripple current
116	MAL211631688E3	6,8µF 50V 5x11mm 105°C 2000h	→	MAL214238688E3	6,8µF 63V 5x11mm 105°C 2500h	63V / lower ripple current
116	MAL211636479E3	47µF 25V 5x11mm 105°C 2000h	→	MAL214236479E3	47µF 25V 5x11mm 105°C 2500h	
116	MAL211637339E3	33µF 40V 5x11mm 105°C 2000h	→	MAL214231339E3	33µF 50V 5x11mm 105°C 2500h	50V
116	MAL211651109E3	10µF 50V 5x11mm 105°C 2000h	→	MAL214258109E3	10µF 63V 5x11mm 105°C 2500h	63V / Pitch 2.0mm / MAL214278109E3 Pitch 2.5mm
116	MAL211651158E3	1,5µF 50V 5x11mm 105°C 2000h	→	No Cross		
116	MAL211651159E3	15µF 50V 5x11mm 105°C 2000h	→	No Cross		
116	MAL211651228E3	2,2µF 50V 5x11mm 105°C 2000h	→	MAL214259228E3	2,2µF 100V 5x11mm 105°C 2500h	100V / Lower ripple current, Pitch 2.0mm / MAL214275101E3 Pitch 2.5mm
116	MAL211651229E3	22µF 50V 5x11mm 105°C 2000h	→	MAL214251229E3	22µF 50V 5x11mm 105°C 2500h	Pitch 2.0mm / MAL214271229E3 Pitch 2.5mm
116	MAL211651478E3	4,7µF 50V 5x11mm 105°C 2000h	→	MAL214258478E3	4,7µF 63V 5x11mm 105°C 2500h	63V / Lower ripple current, Pitch 2.0mm / MAL214278478E3 Pitch 2.5mm
116	MAL211654101E3	100µF 10V 5x11mm 105°C 2000h	→	MAL214255101E3	100µF 16V 5x11mm 105°C 2500h	16V / Pitch 2.0mm / MAL214275101E3 Pitch 2.5mm
116	MAL211656479E3	47µF 25V 5x11mm 105°C 2000h	→	MAL214256479E3	47µF 25V 5x11mm 105°C 2500h	Pitch 2.0mm / MAL214276479E3 Pitch 2.5mm
116	MAL211670339E3	33µF 35V 5x11mm 105°C 2000h	→	MAL214271339E3	33µF 50V 5x11mm 105°C 2500h	50V
116	MAL211671109E3	10µF 50V 5x11mm 105°C 2000h	→	MAL214278109E3	10µF 63V 5x11mm 105°C 2500h	63V
116	MAL211671228E3	2,2µF 50V 5x11mm 105°C 2000h	→	MAL214279228E3	2,2µF 100V 5x11mm 105°C 2500h	100V / lower ripple current
116	MAL211671229E3	22µF 50V 5x11mm 105°C 2000h	→	MAL214271229E3	22µF 50V 5x11mm 105°C 2500h	
116	MAL211671338E3	3,3µF 50V 5x11mm 105°C 2000h	→	MAL214278338E3	3,3µF 63V 5x11mm 105°C 2500h	63V / lower ripple current
116	MAL211671478E3	4,7µF 50V 5x11mm 105°C 2000h	→	MAL214278478E3	4,7µF 63V 5x11mm 105°C 2500h	63V / lower ripple current
116	MAL211674101E3	100µF 10V 5x11mm 105°C 2000h	→	MAL214275101E3	100µF 16V 5x11mm 105°C 2500h	16V
116	MAL211675689E3	68µF 16V 5x11mm 105°C 2000h	→	No Cross		
116	MAL211676479E3	47µF 25V 5x11mm 105°C 2000h	→	MAL214276479E3	47µF 25V 5x11mm 105°C 2500h	
116	MAL211690121E3	10µF 50V 5x11mm 105°C 2000h	→	MAL214258109E3	10µF 63V 5x11mm 105°C 2500h	63V / Standard Part, Pitch 2.0mm / MAL214278109E3 Pitch 2.5mm

* Replacement series 142 RHS. Link to datasheet: <https://www.vishay.com/doc?28402>