

## Resistors Product Change Notification

<b>PCN Number</b>	PCN-2019-RBU12
<b>PCN Title</b>	Design Change – ULR Green Series
<b>PCN Date</b>	12 <sup>th</sup> August 2019
<b>Type of Change</b>	<input type="checkbox"/> End of Life Notification <input type="checkbox"/> Material Change <input type="checkbox"/> Manufacturing Facility Change or Addition <input type="checkbox"/> Process Change <input type="checkbox"/> Datasheet Specification Change <input checked="" type="checkbox"/> Design Change <input type="checkbox"/> Other:
<b>Manufacturing Location(s) Affected</b>	TT Electronics Bedlington & TT Electronics Corpus Christi
<b>Date of Change Implementation</b>	October 2019

Products Affected		
Product Series	Product Type(s)	Datasheet Link
ULR	ULR3 & ULRG3	<a href="https://www.ttelectronics.com/TTElectronics/media/ProductFiles/Resistors/Datasheets/ULR.pdf">https://www.ttelectronics.com/TTElectronics/media/ProductFiles/Resistors/Datasheets/ULR.pdf</a>
	ULR2 & ULRG2	
	ULR25 & ULRG25	

Change Detail
<p><b>Description of Change</b></p> <p>TT Electronics is making a minor design change to the ULR Series metal element current sense resistor. Please see appendix 1 for a full list of affected part numbers. The following changes are being made:</p> <ol style="list-style-type: none"> <li>1. Removal of green coating layer from the top side</li> <li>2. Removal of white marking layer</li> </ol> <p>Image 1 below shows the part build current design, image 2 below shows the part build to the new design detailed in this PCN.</p>

	Image one – Current ULR Design	Image two – New ULR design
<p><b>Reason for Change</b></p>	<p>The coating and marking operations are bottle-neck processes in the manufacture of this device.            The coating and marking layers have no impact on performance of the part.            Removal of these layers will result in a significant lead time reduction and will mitigate impending price increases.            Removing these layers have will not affect fit, form or function. There will be no change to electrical, mechanical or environmental characteristics of the part</p>	
<p><b>Implementation Plan</b></p>	<p>TT Electronics plan to implement this change during September 2019 with first shipments being made in October 2019. For a period, until stocks of the existing design are depleted, both variants may be shipped.            Any open orders will be manufactured to the existing design.</p>	
<p><b>Customer Impact</b></p>	<p>There will be no impact to the customer or supply chain.            There is no change to part numbering or ordering procedure            Removing these layers have will not affect fit, form or function. There will be no change to electrical, mechanical or environment characteristics of the part</p>	
<p><b>Recommendations</b></p>	<p>N/A</p>	
<p><b>Availability of Previously Manufactured Product</b></p>	<p>Once the change has been made, product manufactured to the old design will no longer be available</p>	
<p><b>Availability of Approval Samples</b></p>	<p>Samples are available – Please contact your local sales representative to arrange this.</p>	
<p><b>Sales Contacts</b></p>	<p>Europe (OEM): Peter Bauer <a href="mailto:Peter.bauer@ttelelectronics.com">Peter.bauer@ttelelectronics.com</a>            Asia (OEM): Janson Chuen <a href="mailto:janson.chuen@ttelelectronics.com">janson.chuen@ttelelectronics.com</a>            USA (OEM): Kevin Marzano <a href="mailto:kevin.marzano@ttelelectronics.com">kevin.marzano@ttelelectronics.com</a>            Europe Distribution: Claudia Patzak-Kruger <a href="mailto:Claudia.patzak@ttelelectronics.com">Claudia.patzak@ttelelectronics.com</a>            Asia Distribution: Willis Ong <a href="mailto:Willis.Ong@ttelelectronics.com">Willis.Ong@ttelelectronics.com</a>            USA Distribution: Jason Gildea <a href="mailto:Jason.gildea@ttelelectronics.com">Jason.gildea@ttelelectronics.com</a></p>	

Approvals			
	Name	Title	Date
Issued by	David Peters	Product Line Manager	12th August 2019
Approved by	Barry Peters	VP Product Management & Engineering	12th August 2019
Approved by	Klaus Zwerschina	Business Development Director	12th August 2019

#### Appendix 1 – List of affected part numbers

##### European Part Numbers

ULR3-R00015FT2	ULR3-R00015JT2	ULR2-R0065FT2	ULR2-R0065JT2
ULR3-R00025FT2	ULR3-R00025JT2	ULR2-R007FT2	ULR2-R007JT2
ULR3-R0003FT2	ULR3-R0003JT2	ULR2-R0075FT2	ULR2-R0075JT2
ULR3-R0004FT2	ULR3-R0004JT2	ULR2-R008FT2	ULR2-R008JT2
ULR3-R00075FT2	ULR3-R00075JT2	ULR2-R009FT2	ULR2-R009JT2
ULR3-R001FT2	ULR3-R001JT2	ULR2-R010FT2	ULR2-R010JT2
ULR3-R0015FT2	ULR3-R0015JT2		
ULR3-R002FT2	ULR3-R002JT2	ULR25-R0035FT2	ULR25-R0035JT2
ULR3-R0025FT2	ULR3-R0025JT2	ULR25-R004FT2	ULR25-R004JT2
ULR3-R003FT2	ULR3-R003JT2	ULR25-R0045FT2	ULR25-R0045JT2
		ULR25-R005FT2	ULR25-R005JT2
		ULR25-R0055FT2	ULR25-R0055JT2
		ULR25-R006FT2	ULR25-R006JT2

##### USA Part Numbers

ULRG32512R00015FLFSLT	ULRG32512R00015JLFLSLT	ULRG22512R0065FLFSLT	ULRG22512R0065JLFLSLT
ULRG32512R00025FLFSLT	ULRG32512R00025JLFLSLT	ULRG22512R007FLFSLT	ULRG22512R007JLFLSLT
ULRG32512R0003FLFSLT	ULRG32512R0003JLFLSLT	ULRG22512R0075FLFSLT	ULRG22512R0075JLFLSLT
ULRG32512R0004FLFSLT	ULRG32512R0004JLFLSLT	ULRG22512R008FLFSLT	ULRG22512R008JLFLSLT
ULRG32512R00075FLFSLT	ULRG32512R00075JLFLSLT	ULRG22512R009FLFSLT	ULRG22512R009JLFLSLT
ULRG32512R001FLFSLT	ULRG32512R001JLFLSLT	ULRG22512R010FLFSLT	ULRG22512R010JLFLSLT
ULRG32512R0015FLFSLT	ULRG32512R0015JLFLSLT		
ULRG32512R002FLFSLT	ULRG32512R002JLFLSLT	ULRG2512R0035FLFSLT	ULRG2512R0035JLFLSLT
ULRG32512R0025FLFSLT	ULRG32512R0025JLFLSLT	ULRG2512R004FLFSLT	ULRG2512R004JLFLSLT
ULRG32512R003FLFSLT	ULRG32512R003JLFLSLT	ULRG2512R0045FLFSLT	ULRG2512R0045JLFLSLT
		ULRG2512R005FLFSLT	ULRG2512R005JLFLSLT
		ULRG2512R0055FLFSLT	ULRG2512R0055JLFLSLT
		ULRG2512R006FLFSLT	ULRG2512R006JLFLSLT