

Resistors Product Change Notification

PCN Number	PCN-2025-RBU15		
PCN Title	EOL Announcement – RC70-RC70P families		
PCN Date	11 th November 2025		
Type of Change	☑ End of Life Notification☐ Manufacturing Facility Change or Addition☐ Datasheet Specification Change☐ Other:	☐ Material Change☐ Process Change☐ Design Change	
Manufacturing Location(s) Affected	TT Electronics Bedlington		
Date of Change Implementation	11 th of November 2025		

Products Affected							
TT Series	TT Series Datasheet Link						
RC70	https://www.ttelectronics.com/TTElectronics/media/ProductFiles/Datasheet/RC.pdf						
RC70P	https://www.ttelectronics.com/TTElectronics/media/ProductFiles/Datasheet/RCP.pdf						

	Change Detail
Description of Change	TT Electronics is announcing that the families RC70-RC70P are being taken End of Life, (EOL). This applies ONLY RC70 and RC70P family.
	Families RC55, RC65 and RC55P, RC65P will continue to be available in all the variants.
Reason for Change	Declining volumes do not justify long-term manufacture of this product group.
Implementation Plan	A Last Time Buy is not available
Customer Impact	All part numbers of RC70-RC70P families are EOL and unavailable to order from TT Electronics.
Recommendations	Please contact your local Sales / FAE team for assistance in selecting the best alternative product.
Availability of Previously Manufactured Product	N/A
Availability of Approval Samples	N/A
Sales Contacts	Americas: Shannon Rosene shannon.rosene@ttelectronics.com Europe: Simon Webb simon.webb@ttelectronics.com Asia: Praveen Kumar praveen.Kumar@ttelectronics.com





Approvals Approvals							
	Name	Title	Date				
Issued by	Mario Garsi	Product Line Manager	11 th November 2025				
Approved by	Adam Royles	Product Line Director	11 th November 2025				
Approved by	Klaus Zwerschina	VP Sales	11 th November 2025				

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RC Series

Features:

- RC55 available to EN140101 & IECQ-CECC40101 release
- Resistance tolerance down to 0.05%
- Wide resistance range
- Low noise and negligible voltage coefficient
- Screened parts available for critical applications
- Temperature coefficient of resistance down to 5ppm/°C
- Options for Pb-free and Pb-bearing wire finishes





All Pb-free parts comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

Electrical Data

RC Actual Data		RC55	RC65		
Power rating @70°C	W	0.4	0.5		
Resistance range	ohms	11	R0 – 4M0		
Limiting element voltage	V	350	500		
Isolation voltage	V	500	750		
TCR (20 - 70°C) ¹	ppm/°C	5, 10, 1	15, 25, 50, 100		
Resistance tolerance ¹	%	0.05, 0	.1, 0.25, 0.5, 1		
Standard values ²		E24 & E96 preferred			
Thermal impedance	°C/W	110 70			
Ambient temperature range	°C	-55 to 155			

Note 1: See table of resistance restrictions.

Note 2: Non-standard values may be requested.

The requirements of the following standards are met or exceeded by the corresponding RC series products above.

EN140101-806 Requirements	В
Required power rating @70°C W	0.4
Qualified resistance range ohms	56R – 820K
Required limiting element voltage V	300
Required isolation voltage V	500
Required TCR ¹ ppm/°C	10, 15, 25, 50
Required resistance tolerance %	0.1, 0.25, 0.5, 1

IECQ-CECC 40101-004 Requirements		Н	J	K
Required power rating @70°C W		0.063	0.125	0.25
Qualified resistance range	ohms	1R0 – 1M0		
Required limiting element voltage	V	20	200	
Required isolation voltage	V	280		350
Required TCR ¹	ppm/°C	15, 25, 50, 100		0
Required resistance tolerance	%	0.05	, 0.1, 0.25, 0	.5, 1

IECQ-CECC 40101-804 Requirements		Α	В
Required power rating @70°C	W	0.125	0.25
Qualified resistance range	ohms	1R0 – 1M0	
Required limiting element voltage	V	200	250
Required isolation voltage	V	280	350
Required TCR ¹	ppm/°C	15, 25, 50	
Required resistance tolerance	%	0.1, 0.2	5, 0.5, 1

Note 1: In these standards TCRs are not specified for values <5R0, and for values ≥5R0 and <10R the TCR limit is 2 x the stated figure.





Physical Data

Dimens	ions in mm a	nd weight in	g					
Туре	L max ¹	D max	f min ²	d nom	PCB mounting centres	Min. bend radius	Wt.	d i
RC55	7.2	2.5	30	0.6	10.2	0.6	0.24	D
RC65	10	3.7	30	0.6	12.7	0.6	0.4	

Note 1: Coating may extend up to 2mm along each lead.

Note 2: Dimension relates only to bulk packed products.

Construction

A metal film is deposited onto a high quality ceramic rod. Nickel-plated steel caps are force fitted to the rod and termination wires are welded to the caps. The resistor is adjusted to value by a helical cut in the film and the body is protected with a specially formulated epoxy coating.

Marking

Type reference, TCR code, resistance value and tolerance code are legend marked. The resistance values conform to IEC 60062.

Terminations

Terminations are copper wire with Sn or SnPb finish. They meet the strength requirements of IEC 60115-1 clause 9.5 and the solderability requirements of IEC 60115-1 clause 11.1.

Solvent Resistance

The body protection and marking are resistant to all normal industrial cleaning solvents suitable for printed circuit boards.

Performance Data

		EN140101-806	IECQ-CECC 40101-	IECQ-CECC 40101-	Actual Perf	ormance
		Requirements	004 Requirements	804 Requirements	Maximum ^{1,2}	Typical
Load at full rated power: P _r for 1000 hours at 70°C	±∆R%		Not specified		0.3	0.1
Load at EN140101 & IECQ-						
CECC40101 ratings: 1000 hours at 70°C	±∆R%	0.25 ³	0.5 ³	0.5 3	0.3	0.05
Dry heat:	±ΔR%	0.25 ³	0.5 ³	0.5 ³	1	0.15
No load, 1000 hours at 155°C	Ξ ΔΝ70	0.23	0.5	0.5	1	0.13
Shelf-life test:	±ΔR%		Not specified		0.1	0.03
12 months at room temperature	±Δ11/0	Not specified		0.1	0.03	
Derating from rated power at 70°C		Zero @125°C	Zero @155°C	50% @125°C	50% @125°C, zero @155°C	
Short term overload: Lesser of 6.25xP _r or 2.5xLEV for 5s	±∆R%	0.5 ²	0.1 ²	0.1 ³	0.1	0.02
Climatic	±ΔR%	0.25 ³	0.5 ³	0.5 ³	0.3	0.1
Climatic category		55/125/56	55/155/56	55/125/56	55/155	5/56
Long term damp heat	±∆R%	0.25 ³	0.5 ³	0.5 ³	0.5	0.1
Temperature rapid change	±ΔR%	0.05 ²	0.1 ²	0.1 ²	0.2	0.05
Resistance to solder heat	±∆R%	0.05 ²	0.1 ²	0.1 ²	0.06	0.03
Vibration	±ΔR%	0.05 ²	0.1 ²	0.1 ²	0.06	0.02
Bump	±∆R%		0.06	0.02		
Noise in a decade of frequency	μV/V	<0.5	Not specified 0.06 <0.5			
Voltage coefficient of resistance	ppm/V		Not spe	cified		<1

Note 1: All values within the qualified resistance range meet EN140101 and IECQ-CECC40101 requirements.

Note 2: Apply an ohmic addition of R01.

Note 3: Apply an ohmic addition of R05.



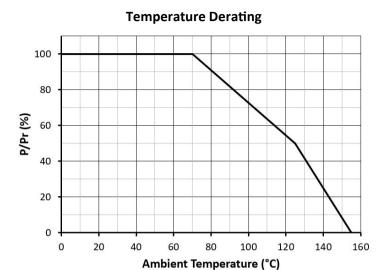


Table of Resistance Restrictions

	Tolerance %								
TCR		RC55			RC65				
ppm/°C	0.05	0.1 - 0.25	$0.5^3 - 1^3$	0.05	0.1 - 0.25	0.5 ³ – 1 ³			
5 ¹	10R to 500K 1		1R0 to 500K	10R to 500K		1R0 to 500K			
10		10R to 1M0 1R0 to 1M0	100 to 100		10R to 1M0	100 to 1140			
15				TKO TO TIVIO		5R0 to 1M0	1R0 to 1M0		
25	10R to 1M0		1R0 to 2M0	10R to 1M0	EDO += 2040	1R0 to 2M0			
50 ²		10R to 2M0 1R0 to 4M0		5R0 to 2M0	1PO to 4MO				
100 ²			100 (0 41010		1R0 to 2M0	1R0 to 4M0			

Note 1: Based on sampling. 100% screened product is available.

Note 2: For maximum availability, where the ohmic value permits, 25ppm/°C is preferred to 50 or 100ppm/°C.

Note 3: For maximum availability, where the ohmic value permits, 0.25% is preferred to 0.5 or 1%.

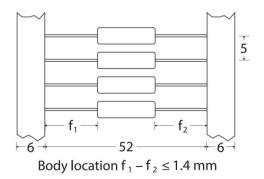
Application Notes

Matched Sets

TT Electronics has many years' experience in the supply of matched sets of precision resistors. Resistors can be supplied matched for tolerance and TCR down to $\pm 0.02\%$ and $\pm 2ppm/^{\circ}C$.

Packaging

RC55 and RC65 standard packing is in tape, as shown below. Taped resistors on reel or loose packed components can also be supplied by special request.



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RC Series

Ordering Procedure

Global Part Number Example: RC55V-31K6BI (RC55 with TCR ±5ppm/°C at 31.6 kilohms ±0.1%, Pb-free)



1	2	3	4	5			5
Туре	TCR (ppm/°C)	Value	Tolerance	Finish, Screening & Packing			
RC55	V = ±5	E24 = 3/4 characters	W = ±0.05%	ı		Pb-f	ree (RoHS)
RC65	T = ±10	E96 = 3/4 characters	B = ±0.1%	SC	Pb	-free with scr	eened TCR (5ppm only)
	Y = ±15	R = ohms	C = ±0.25%	РВ		Sn(95)Pb(5) finish
	D = ±25	K = kilohms	D = ±0.5%	HL		Sn(60)Pb(4	0) high lead finish
	C = ±50	M = megohms	F = ±1%	All above in Standard Packing			andard Packing
	Z = ±100			RC55 RC65		Amma	Up to 5000/box
		•				Ammo	Up to 2500/box

Note: For product released to EN140101 or CECC40101, follow the MPN with text indicating the relevant release and style. For CECC40101-004 the style includes a TCR code which is the same as that used in the MPN. Note that this additional text does not form part of our MPN.

RC55Y-31K6BI EN140101-806 B Examples: RC55Y-31K6BI CECC40101-004 JY

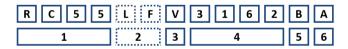
For CECC 40101-804 the TCR codes T and E are used in the style for 15 and 25ppm/°C, coded in the MPN as Y and D respectively. Also an additional suffix -804 is added after, or in the case of Pb-free, instead of, the Finish, Screening & Packing code.

RC55Y-31K6B-804 CECC 40101-804 BT Examples: RC55D-31K6BPB-804 CECC 40101-804 AE

Legacy Part Numbers

This product has a legacy part number format. This is still available for ordering, but for new designs use of the Global Part Number is recommended.

Legacy Part Number Example: RC55LFV3162BA (RC55 with TCR ±5ppm/°C at 31.6 kilohms ±0.1%, Pb-free)



1	2	3	4	5			6
Type ¹	Termination	TCR (ppm/°C)	Value	Tolerance	Packing		Packing
RC55	Omit for	V = ±5	3 digits + multiplier	A = ±0.05%	_	RC55	Ammo, up to 5000/box
RC65	Sn(95)Pb(5)	T = ±10	R = ohms for values	$B = \pm 0.1\%$	A	RC65	Ammo, up to 2500/box
	LF = Pb-free	Y = ±15	<100 ohms	C = ±0.25%			
•		D = ±25		D = ±0.5%			
		C = ±50		F = ±1%			
		Z = ±100					

Note 1: The optional family prefix RC- may be used, e.g. RC-RC55.

Note 2: For product released to EN140101 or CECC40101 the global part number must be used – see above for details.

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RCP Series

Features:

- Precision resistors with uprated power
- Low TCRs over a wide resistance range
- Tolerance down to 0.05%
- Low noise and negligible voltage coefficient
- Options for Pb-free and Pb-bearing wire finishes





All Pb-free parts comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

Electrical Data

		RC55P	RC65P			
Power rating @70°C W		0.5	1.0			
Resistance range	ohms	1RO	- 4M0			
Limiting element voltage V		350	500			
Isolation voltage		500				
TCR (20 - 70°C) ¹ ppm/°C		5, 10, 15, 25, 50, 100				
Resistance tolerance ¹ %		0.05, 0.1, 0.25, 0.5				
Standard values ²		E24 & E96 preferred				
Thermal impedance °C/W		110	70			
Ambient temperature range °C		-55 to 155				

Note 1: See table of resistance restrictions.

Physical Data

Dimens	ions in mm a	nd weight in	,					
Туре	L max ¹	D max	f min ²	d nom	PCB mounting centres	Min. bend radius	Wt. nom	d
RC55P	7.2	2.5	30	0.6	10.2	0.6	0.24	D
RC65P	10	3.7	30	0.6	12.7	0.6	0.4] ' - ' '

Note 1: Coating may extend up to 2mm along each lead.

Construction

A metal film is deposited onto a high quality ceramic rod. Nickel-plated steel caps are force fitted to the rod and termination wires are welded to the caps. The resistor is adjusted to value by a helical cut in the film and the body is protected with a specially formulated epoxy coating.

Marking

Type reference, TCR code, resistance value and tolerance code are legend marked. The resistance values conform to IEC 60062.

Terminations

Terminations are copper wire with Sn or SnPb finish. They meet the strength requirements of IEC 60115-1 clause 9.5 and the solderability requirements of IEC 60115-1 clause 11.1.

Solvent Resistance

The body protection and marking are resistant to all normal industrial cleaning solvents suitable for printed circuit boards.

Note 2: Non-standard values may be requested.

Note 2: Dimension relates only to bulk packed products.





Performance Data

		RC55P Values	≥10R & ≤100K	Other Values / Sizes			
		Maximum	Typical	Maximum ¹	Typical		
Load at rated power: Pr for 1000 hours at 70°C	±ΔR%	0.1	0.03	0.5	0.1		
Dry heat: No load, 1000 hours at 155°C	±ΔR%	0.3	0.1	1	0.15		
Shelf-life test: 12 months at room temperature	±ΔR%	0.015	0.003	0.1	0.03		
Derating from rated power at 70°C			Zero @	9155°C			
Short term overload: Lesser of 6.25xP _r or 2.5xLEV for 5s	±∆R%	0.5	0.005	0.1	0.02		
Climatic	±ΔR%	0.25	0.05	0.3	0.1		
Climatic category		55/155/56					
Long term damp heat	±ΔR%	0.25	0.05	0.5	0.1		
Temperature rapid change	±ΔR%	0.04	0.02	0.2	0.05		
Resistance to solder heat	±ΔR%	0.02	0.003	0.06	0.03		
Vibration	±ΔR%	0.2	0.002	0.06	0.02		
Bump	±ΔR%	0.2	0.002	0.06	0.02		
Noise in a decade of frequency	μV/V	0.1	0.03	1	0.1		
Voltage coefficient of resistance	ppm/V	-	<1	-	<1		

Note 1: Apply an ohmic addition of R01 for values <10R.

Table of Resistance Restrictions

	Tolerance %							
TCR		RC55P		RC65P				
ppm/°C	0.05	0.1 - 0.25	0.5 ³	0.05	0.1 - 0.25	0.5 ³		
5 ¹	10R to	500K	1R0 to 500K	10R to	1R0 to 500K			
10		10R to 1M0	1R0 to 1M0		10R to 1M0	1R0 to 1M0		
15		TOK TO TIVIO	TKO to TIVIO		5R0 to 1M0			
25	10R to 1M0		1R0 to 2M0	10R to 1M0	EBO +o 2MO	1R0 to 2M0		
50 ²		10R to 2M0	1R0 to 4M0		5R0 to 2M0	100 to 4040		
100 ²			180 to 41010		1R0 to 2M0	1R0 to 4M0		

Note 1: Based on sampling. 100% screened product is available.

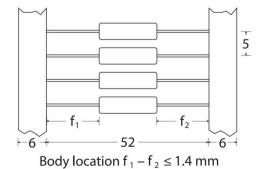
Application Notes

Matched Sets

TT Electronics has many years' experience in the supply of matched sets of precision resistors. Resistors can be supplied matched for tolerance and TCR down to ±0.02% and ±2ppm/°C.

Packaging

RC55P and RC65P standard packing is in tape, as shown below. Taped resistors on reel or loose packed components can also be supplied by special request.



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Note 2: For maximum availability, where the ohmic value permits, 25ppm/°C is preferred to 50 or 100ppm/°C.

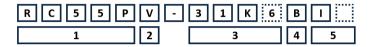
Note 3: For maximum availability, where the ohmic value permits, 0.25% is preferred to 0.5 or 1%.



RCP Series

Ordering Procedure

Example: RC55PV-31K6BI (RC55P with TCR ±5ppm/°C at 31.6 kilohms ±0.1%, Pb-free)



1	2	3	4	5				
Туре	TCR (ppm/°C)	Value	Tolerance	Finish, Screening & Packing				
RC55P	V = ±5	E24 = 3/4 characters	W = ±0.05%	ı		Pb-fr	ee (RoHS)	
RC65P	T = ±10	E96 = 3/4 characters	B = ±0.1%	SC	Pb-f	Pb-free with screened TCR (5ppm only) Sn(95)Pb(5) finish		
	Y = ±15	R = ohms	C = ±0.25%	РВ				
	D = ±25	K = kilohms	D = ±0.5%		Al	ll above in Sta	ndard Packing	
	C = ±50	M = megohms		RC55P RC65P		Ammo	Up to 5000/box	
	Z = ±100		-				Up to 2500/box	

www.ttelectronics.com/resistors