

Resistors Product Change Notification

PCN Number	PCN-2025-RBU10
PCN Title	Changes to PFC family
PCN Date	11 th June 2025
Type of Change	☐ End of Life Notification ☐ Manufacturing Facility Change or Addition ☒ Datasheet Specification Change ☒ Other: Ordering Part Number Change ☐ Material Change ☐ Process Change ☐ Design Change
Manufacturing Location(s) Affected	TT Electronics Plano
Date of Change Implementation	11 th of June 2025

Products Affected	
TT Series	Datasheet Link
PFC	https://www.ttelectronics.com/TTElectronics/media/ProductFiles/Datasheet/PFC.pdf

Change Detail	
Description of Change	TT Electronics is adding new detail to the datasheet of PFC family and enhancing the Ordering Procedure with uniform part number coding. Datasheet change (See Appendix A): 1-ESD Sensitivity value updated for each size Ordering Procedure enhanced and simplified (Appendix B): 2-From 2 Ordering Procedures ('European (Welwyn)', 'USA(IRC)') to one single Ordering Procedure 3- New Global part numbers should be used going forward but old part numbers are still orderable All the crossing included into Excel File distributed with this PCN, with the name as Appendix B: PCN-2025-RBU10 PFC COMMERCIAL SERIES PART NUMBER CHANGE APPENDIX B
Reason for Change	Adding ESD detail at size-specific level and reducing confusion and order handling mistakes from customer purchasing departments.
Implementation Plan	N/A
Customer Impact	For logistic, the Ordering Part Number for future order is into new data sheet and into cross Excel file.
Recommendations	In case of doubts about the new Ordering Part number contact local TT Electronics experts

Availability of Previously Manufactured Product	N/A
Availability of Approval Samples	N/A
Sales Contacts	Americas: Greg Hawkins greg.hawkins@ttelectronics.com Europe: Simon Webb simon.webb@ttelectronics.com Asia: Praveen Kumar Praveen.Kumar@ttelectronics.com

Approvals			
	Name	Title	Date
Issued by	Mario Garsi	Product Line Manager	11 th June 2025
Approved by	Klaus Zwerschina	VP Sales	11 th June 2025

Appendix A

1-ESD Sensitivity value added for each size

Current data sheet:

Electrical Data

Model	Power Rating (70°C)	Max Voltage Rating ($\leq \sqrt{P \times R}$)	Temperature Range	ESD Sensitivity	Noise	Termination	Substrate
W0402	50mW	75V	-65°C to +150°C	2KV to 4KV (HBM)	<-25dB	100% matte tin or 60/40 SnPb plated over nickel barrier	96.5% Alumina
W0603	100mW	75V					
W0805	250mW	100V					
W1206	333mW	200V					

New data sheet:

Electrical Data

	PFC0402	PFC0603	PFC0805	PFC1206
Power rating @70°C	50	100	250	333
Rated operating voltage not to exceed $\sqrt{P \times R}$	75		100	200
Resistance range	15R to 30K	10R to 100K	10R to 267K	10R to 1M0
Tolerance	0.1, 0.25, 0.5, 1, 2, 5			
TCR	10, 15, 25, 50, 100 ¹			
ESD sensitivity HBM	0.5	1	1.5	2
Noise	<-25			
Operating temperature	-65 to 150			
Values	E24 or E192			

Note that all products with size 0402 and SnPb finish and all products with values <10R are still available on the datasheet at the following link:
<https://www.ttelectronics.com/TTElectronics/media/ProductFiles/Datasheet/pfc-s.pdf>

Appendix B

All the crossing included into Excel File distributed with this PCN, with the name as **Appendix B:**

PCN-2025-RBU10 PFC COMMERCIAL SERIES PART NUMBER CHANGE APPENDIX B.xlsx

Existing Ordering Procedure:

European (Welwyn) Part Number: W1206R-01-1K0BI (1206, 100ppm/°C, 1 kilohm ±0.1%, Pb-free)

W	1	2	0	6	R	-	0	1	-	1	K	0	B	I
1	2	3	4	5	6									

1 Type	2 Size	3 TCR	4 Value	5 Tolerance	6 Termination & Packing
W=PFC	0402	R-12 = ±10ppm/°C	E24 = 3/4 characters	B = ±0.1%	I = Pb-free, Standard pack
	0603	R-11 = ±15ppm/°C	E96 = 3/4 characters	D = ±0.5%	PB = SnPb finish, Standard Pack
	0805	R = ±25ppm/°C	R = ohms	F = ±1%	All sizes Up to 5000/reel
	1206	R-02 = ±50ppm/°C	K = kilohms	G = ±2%	
		R-01 = ±100ppm/°C	M = megohms	J = ±5%	

USA (IRC) Commercial Part Number: PFC-W1206LF-01-1001-B (1206, 100ppm/°C, 1 kilohm ±0.1%, Pb-free)

P	F	C	-	W	1	2	0	6	L	F	-	0	1	-	1	0	0	1	-	B
1	2	3	4	5	6															

1 Family	2 Model	3 Termination	4 TCR	5 Value	6 Tolerance	Packing
PFC	W0402	R = SnPb (60/40)	12 = ±10ppm/°C	3 digits + multiplier	B = ±0.1%	All sizes Up to 5000/reel
	W0603	LF = Pb-free (100%Sn)	11 = ±15ppm/°C	R = ohms for values <100 ohms	D = ±0.5%	
	W0805		03 = ±25ppm/°C		F = ±1%	
	W1206		02 = ±50ppm/°C		G = ±2%	
			01 = ±100ppm/°C		J = ±5%	

New Ordering Procedure:

Example: PFC0402LFD1002BT10 (0402, 25ppm/°C at 10 kilohms ±0.1%, Pb-free)

P	F	C	0	4	0	2	L	F	D	1	0	0	2	B	T	1	0
1	2	3	4	5	6	7											

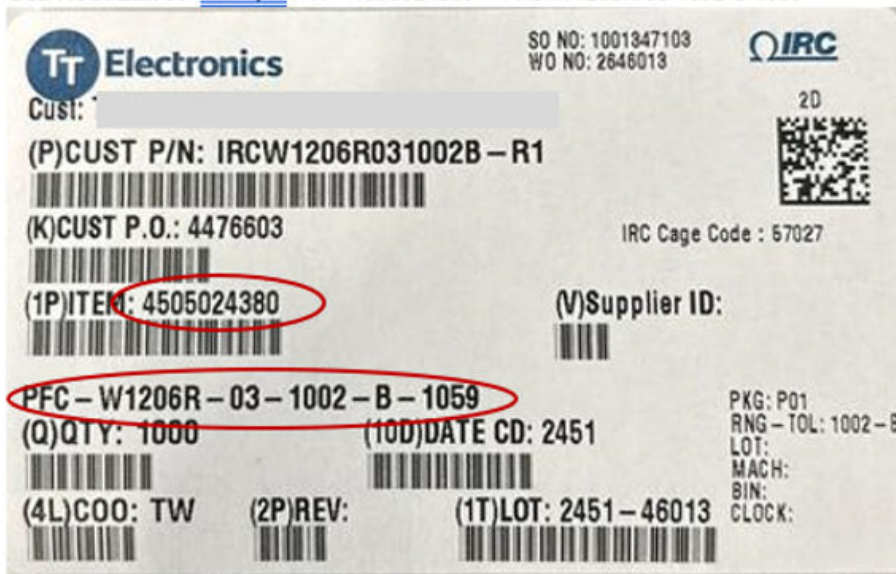
1 Series	2 Size	3 Termination	4 TCR (ppm/°C)	5 Value	6 Tolerance	7 Packing
PFC	0402	LF = Pb-free (100%Sn)	T = ±10	3 digits + multiplier	B = ±0.1%	Pb-free (LF) product
	0603	PB = SnPb (60/40)	Y = ±15	R = ohms for values <100 ohms	C = ±0.25%	T10 0402 10,000/reel
	0805	(0603, 0805, 1206 only)	D = ±25		D = ±0.5%	T5 0603, 0805, 1206 5000/reel
	1206		C = ±50		F = ±1%	T1 All sizes ¹ 1000/reel
			Z = ±100		G = ±2%	SnPb (PB) product
					J = ±5%	T1 0603, 0805, 1206 1000/reel

Note 1: Non-standard packing option – consult factory for availability.

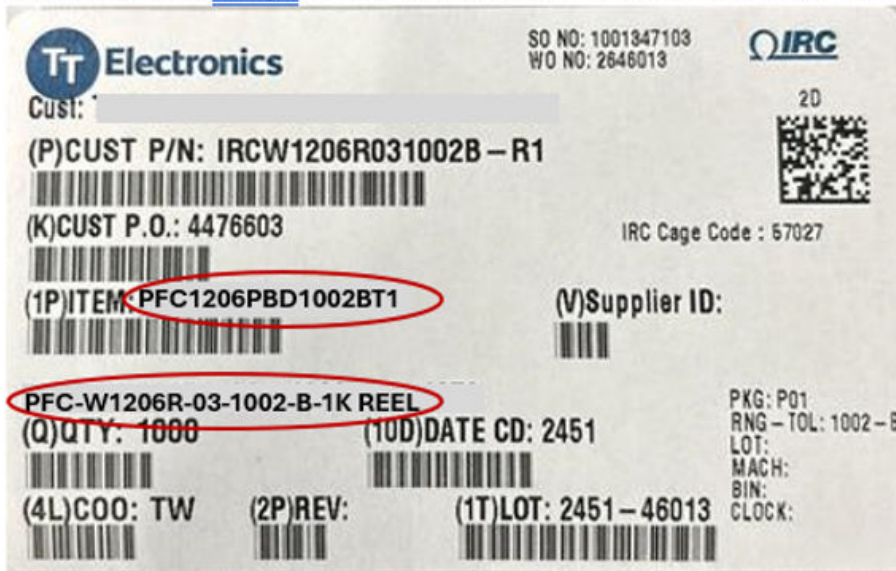
See below a comparison example between current and new labels:

Appendix B: Example Label changes

Old Reel Label example P/N 4505024380 PFC-W1206R-03-1002-B-1059



New Reel Label example P/N PFC1206PBD1002BT1 PFC-W1206R-03-1002-B-1K REEL



Mfg	Part Number
IRC	W0805R031000B-R1
IRC	W0805R031002BT
IRC	W0805R031333B-R1
IRC	W0805R031001B-R1
IRC	W0805R031002B-R1
IRC	W0805R031372B-R1
IRC	W0805R031351B-R1
IRC	W0805R031352B-R1
IRC	W0805R031422B-R1
IRC	W0805R032000B-R1
IRC	W0805R031373B-R1
IRC	W0805R031981B-R1
IRC	W0805R032001B-R1
IRC	W0805R031371B-R1
IRC	W0805R031912B-R1
IRC	W0805R031962B-R1
IRC	W0805LF031132B-R1
IRC	W0805LF031133B-R1
IRC	W0805LF032212B-R1
IRC	W0805LF032371B-R1
IRC	W0805LF032372B-R1
IRC	W0805LF032430B-R1
IRC	W0805LF032052B-R1
IRC	W0805LF032211B-R1
IRC	W0805LF032490B-R1
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IRC	W0805LF032321B-R1
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IRC	W0603LF031821B-R1
IRC	W0603LF031871B-R1
IRC	W1206LF031183B-R1

IRC	W1206LF031210F
IRC	W1206LF031273B-R1
IRC	W1206LF031303B-R1
IRC	W0603LF031912B-R1
IRC	W0603LF032000B-R1
IRC	W1206LF031183F-R1
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IRC	W1206LF038062B-R1
IRC	W1206LF039881B-R1
IRC	W1206LF033322B-R1
IRC	W1206LF033481B

IRC	W1206LF038873B-R1
IRC	W1206LF033402B-R1
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IRC	W0805R031300B-R1
IRC	W0805R031692B-R1
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IRC	W0805LF031092B-R1
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