

# WALSIN TECHNOLOGY CORPORATION

## Change Notification

CN No.: CN-R240201  Material  Process  
 Specification  Others

**Subject : Power Low Ohm series E.O.L announcement.**

**Reasons :**

**Will stop offer Power low ohm WW06P~WW12P series below 100 mΩ range, because the raw material Pd & Ag price impact, lead the product lost the market advantage.**

**Contents(Before/After):**

1. Chip-R thick film power low ohmic ,1206/0805/0603 size ,below 100mΩ products services will be discontinued with effect from 1<sup>st</sup> January 2025.

EOL Product P/N and Resistance range

- WW12P, WW12P\_J, 0.020~ 0.091Ω
- WW08P, WW08P\_J, 0.047~ 0.091Ω
- WW06P, WW06P\_J ,0.047~ 0.091Ω

2. The following quality characteristic comparison for new product for ordering conversion reference:

- (1) Electrical property: The electrical property of substitutions meets the specification or better than the specification of the original products.
- (2) Products visual appearance: No significant difference on application soldering even there are slightly alike on visual appearance and termination dimension.
- (3) Environmentally hazardous substance: The material composition of the substitutions meets RoHS specification and Pb exemption free.

**Thick film power low ohmic (WW12P <R100 EOL):**

Size	1206					
Description	Original		Description	Change		
Series	<b>WW12P</b>		<b>Series</b>	<b>WW12W</b>	<b>WW12W_GN, _GL, _GJ, _GH</b>	
Resistance	0.020Ω~0.976Ω		Resistance	0.010Ω~0.910Ω	0.010Ω~0.910Ω	
Tolerance (%)	5%/1%		Tolerance (%)	5%/1%	5%/1%	
TCR level	<R100 EOL	TCR	TCR level	TCR	TCR	PN#15 TCR code
0.100Ω~0.976Ω		100	0.500Ω~ 0.910Ω	100	100	N
			0.100Ω~ 0.490Ω			
0.047Ω~0.091Ω	EOL	200	0.050Ω~ 0.091Ω	100	100	N
			0.040Ω~ 0.047Ω	200	200	L
0.020Ω~0.043Ω	EOL	1000	0.022Ω~ 0.039Ω	600	600	J
			0.010Ω~ 0.020Ω	1000	1000	H
Power (Watt)	1/2W		Power (Watt)	1/3W	3/4W (PN#14 Power code: G)	
Part number example	<b>WW12PR020FTL</b>		Part number example	<b>WW12WR020FTL</b>	<b>WW12WR020FTL GH</b>	

**Thick film power low ohmic (WW08P <R100 EOL):**

Size	0805					
Description	Original		Description	Change		
Series	WW08P		Series	WW08W	WW08W_FN,_FL,_FK,,_FJ,_FH	
Resistance	0.047Ω~0.976Ω		Resistance	0.010Ω~0.910Ω	0.010Ω~0.910Ω	
Tolerance (%)	5%/1%		Tolerance (%)	5%/1%	5%/1%	
TCR level	<R100 EOL	TCR	TCR level	TCR	TCR	PN#15 TCR code
0.100Ω~0.976Ω		150	0.500Ω~ 0.910Ω 0.100Ω~ 0.490Ω	100	100	N
0.047Ω~0.091Ω	EOL	200	0.050Ω~ 0.091Ω 0.040Ω~ 0.047Ω	200 400	200 400	L K
			0.022Ω~ 0.039Ω	600	600	J
			0.010Ω~ 0.020Ω	1000	1000	H
Power (Watt)	1/3W		Power (Watt)	1/4W	1/2W (PN#14 Power code: F)	
Part number example	WW08PR047FTL		Part number example	WW08WR047FTL	WW08WR047FTL FK	

**Thick film power low ohmic (WW06P <R100 EOL):**

Size	0603					
Description	Original		Description	Change		
Series	WW06P		Series	WW06W	WW06W_DL,_DK	
Resistance	0.047Ω~0.976Ω		Resistance	0.050~0.0910Ω	0.050~0.0910Ω	
Tolerance (%)	5%/1%		Tolerance (%)	5%/1%	5%/1%	
TCR level	<R100 EOL	TCR	TCR level	TCR	TCR	PN#15 TCR code
0.100Ω~0.976Ω		200	0.500Ω~ 0.910Ω 0.100Ω~ 0.490Ω	200	200	L
0.047Ω~0.091Ω	EOL	250	0.050Ω~ 0.091Ω	400	400	K
Power (Watt)	1/4W		Power (Watt)	1/8W	1/4W (PN#14 Power code: D)	
Part number example	WW06PR050FTL		Part number example	WW06WR050FTL	WW06WR050FTL DK	

**Thick film power low ohmic Automotive (WW12P\_J <R100 EOL):**

Size	1206					
Description	Original		Description	Change		
Series	WW12P_J		Series	WW12W_J	WW12W_JGN	
Resistance	0.020Ω~0.976Ω		Resistance	0.050~0.0910Ω	0.050~0.0910Ω	
Tolerance (%)	5%/1%		Tolerance (%)	5%/1%	5%/1%	
TCR level	<R100 EOL	TCR	TCR level	TCR	TCR	PN#15 TCR code
0.100Ω~0.976Ω		100	0.500Ω~ 0.910Ω 0.100Ω~ 0.490Ω	100	100	N
0.047Ω~0.091Ω	EOL	200	0.050Ω~ 0.091Ω 0.040Ω~ 0.047Ω	100	100	N
0.020Ω~0.043Ω	EOL	1000	0.022Ω~ 0.039Ω			
Power (Watt)	1/2W		Power (Watt)	1/3W	3/4W (PN#14 Power code: G )	
Part number example	WW12PR050FTLJ		Part number example	WW12WR050FTLJ	WW12WR050FTLJGN	

**Thick film power low ohmic Automotive (WW08P\_J <R100 EOL):**

Size	0805					
Description	Original	Description	Change			
Series	<b>WW08P_J</b>	Series	<b>WW08W_J</b>	<b>WW08W_JFN</b>		
Resistance	0.047Ω~0.976Ω	Resistance	0.050~0.0910Ω	0.050~0.0910Ω		
Tolerance (%)	5%/1%	Tolerance (%)	5%/1%	5%/1%		
TCR level	<R100 EOL	TCR	TCR level	TCR	PN#15 TCR code	
0.100Ω~0.976Ω		150	0.500Ω~ 0.910Ω 0.100Ω~ 0.490Ω	100	100	N
0.047Ω~0.091Ω	EOL	200	0.050Ω~ 0.091Ω 0.040Ω~ 0.047Ω	100	100	N
Power (Watt)	1/3W		Power (Watt)	1/4W	1/2W (PN#14 Power code: F)	
Part number example	<b>WW08PR050FTLJ</b>		Part number example	<b>WW08WR050FTLJ</b>	<b>WW08WR050FTLJFN</b>	

**Thick film power low ohmic Automotive (WW06P\_J <R100 EOL):**

Size	0603					
Description	Original	Description	Change			
Series	<b>WW06P_J</b>	Series	<b>WW06W_J</b>	<b>WW06W_JDN, JDL</b>		
Resistance	0.047Ω~0.976Ω	Resistance	0.050~0.0910Ω	0.050~0.0910Ω		
Tolerance (%)	5%/1%	Tolerance (%)	5%/1%	5%/1%		
TCR level	<R100 EOL	TCR	TCR level	TCR	PN#15 TCR code	
0.100Ω~0.976Ω		200	0.500Ω~ 0.910Ω 0.100Ω~ 0.490Ω	100	100	N
0.047Ω~0.091Ω	EOL	250	0.050Ω~ 0.091Ω 0.040Ω~ 0.047Ω	200	200	L
Power (Watt)	1/4W		Power (Watt)	1/8W	1/4W (PN#14 Power code: D)	
Part number example	<b>WW06PR050FTLJ</b>		Part number example	<b>WW06WR050FTLJ</b>	<b>WW06WR050FTLJDL</b>	

**Description :**

Quality assessment report:

No quality effect and the related test data are available on customers' request.

**Effective Date:** January 1, 2025

**Prepared by :** Richard Weng

**Issued By:** Eason Huang/Johnny Yang/YK Chen

**To :**  Customer : All  
**cc :**  WTC Q&R : Jay Huang  
 WTC Sales : All

**Feedback by Customer :**

- Accept for all PN Parts
- Accept for Own Brand PN of AVL, except OEM's PN of AVL
- Reject, Reason:

(Please note the name of person in charge and autograph signed back is preferred.)

( Please kindly feedback before 1<sup>st</sup> Aug. 2024 , otherwise the change will be effective since. 1<sup>st</sup> Jan. 2025 )