

# Milestones of HISTORY

Walsin Technology Corporation

- 1992 • Incorporation of Walsin Tech
- 1997 • Listed on TAsDAQ
- 2000 • Asian's Best Buy by Asia Weekly
- 2001 • Strategic Alliances (in Europe, Korea and Japan)
- Listed on TSE - 2492.TW
- Mass Production China (DL) Plant
- Acquisition Nitsuko Electronics
- MLCC Taiwan #1, World # 6
- 2002 • Phase I Global IT and Logistics Ready
- ISO 14000 & QS 9000 Ready
- China (SZ) Plant Ground Breaking
- Sony Green Partner
- 22 Patents (19 in HF and 3 in Materials)
- Zero Coupon ECB Issue (II)
- 2003 • Acquired POE (2370.TW) 22.5% stake
- MLCC World # 4
- Mass Production China (SZ) Plant
- Acquired EDEN (6157.TW) 30% stake
- Strategic Alliance — Vishay Group
- Zero Coupon ECB Issue (II)
- 43 Patents (5 in Materials)
- 2004 • Mass Production China (DL) Plant Full Process MLCC and Chip R Expansion.
- PSA NPA&S held on April.
- Syndication Loan 30MUSD.
- 50 Patents
- Award of Industrial Technology Advancement
- 2005 • Acquisition PDC
- Strategic Alliance -Arrow
- Samsung Green Partner Certificated
- 2006 • Acquisition Japan Kamaya Electric CO.
- MLCC #1 in China & Taiwan, World #3
- Set up Tai-Chung Branch (Disc Cap.)
- 2007 • 168 Patents in WTC Group
- Strategic Alliance - Frontier
- 2008 • Challenge National Quality Award



Walsin Technology Corporation

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Walsin Technology Corporation



Chip Resistors



Function	Type	Size	Range	Tolerance
Standard	General Purpose	0201 ~ 2512	1R ~ 10MR	1%, 5%, Jumper
Low Ohmic	Low Ohmic	0402~0603	0.10R ~ 0.976R	1%,5%
	Low Ohmic	0805 ~ 2512	0.02R ~ 0.976R	1%, 5%
	Ultra Low Ohmic	2512	0.001R-0.025R	1%, 5%
Integration	Array	0603x4 convex 0603x4 concave 0603x2 concave 0402x2 convex 0402x4 convex 0402x2 concave 0402x4 concave 0402x8 convex	1R ~ 10MR	1%, 5%
	Network	1206 (10P8Rconvex)	10R ~ 100KR	5%
Special Function	Gold termination	0402, 0603	1R ~ 10MR	1%, 5%
	High Ohmic	0402 ~ 2512	11M ~ 100M	5%
	Trimmable	0402 ~ 2512	1R ~ 10MR	0/-20%, 0/-30%
	Attenuator	0404 (0402x3 convex)	1dB ~ 10dB	+/-0.2dB ~ 1dB
High Precision	TC25, TC50(Thin film)	0402	10R ~ 100KR	0.1%, 0.5%
	TC25, TC50(Thin film)	0603	10R ~ 330KR	0.1%, 0.5%
	TC25, TC50(Thin film)	0805 ~ 1206	4.7R ~ 1M R	0.1%, 0.5%
	TC200(Thick film)	0402	10R ~ 1M R	0.1% ~ 0.5%
	TC100(Thick film)	0603 ~ 1206	10R ~ 1M R	0.1% ~ 0.5%

WR	06	X	1000	F	T	L
<u>Type code</u> R: Discrete 1~10MR	<u>Size code</u> 25 : 2512 (6432) 20 : 2010 (5025) 18 : 1218 (3248) 12 : 1206 (3216) 10 : 1210 (3225) 06 : 0603 (1608) 08 : 0805 (2012) 04 : 0402 (1005) 02 : 0201 (0603)	<u>Functional code</u> X : Normal W : 1% for<10ohm and>1Mohm	<u>Resistance</u> E24(J tol.) : 2 significant digits followed by No. of zeros and a blank e.g. : 3ohm=3R0_ 10ohm=100_ 220ohm=221_ 56Kohm=563_ (" " means blank) E24,E96(F tol.) : 3 significant digits followed by No. of zeros	<u>Tolerance</u> F : +/- 1% J : +/- 5% P : Jumper	<u>Packaging code</u> P : 4" reel taping T : 7" reel taping A : 7" reel taping 15Kpcs Q : 10" reel taping G : 13" reel taping R : 0603 2mm pitch taping B : Bulk K : Bulkcase	<u>Termination code</u> _ = SnPb base (" " means blank) L = Sn base (Lead free) R = Pb ≤ 100 ppm (total)
WW	25	M	R002	F	T	L
<u>Type code</u> R : < 1ohm	<u>Size code</u> 25 : 2512 (6432) 20 : 2010 (5025) 18 : 1218 (3248) 12 : 1206 (3216) 10 : 1210 (3225) 08 : 0805 (2012) 06 : 0603 (1608) 04 : 0402 (1005)	<u>Functional code</u> X : Normal M : Sensing type N : Sensing type, High Power W : Thick film low TCR type F : Metal Foil P : Power ( 2512 size=2 watt, 2010 size=0.75 watt, 1210 size=0.5 watt, 1206 size=0.5 watt, 0805 size=0.25 watt, 0603 size=0.125 watt )	<u>Resistance</u> "R" followed by 3 significant digits e.g. : 0.1ohm=R100 0.033ohm=R033 0.56ohm=R560	<u>Tolerance</u> F : +/- 1% G : +/- 2% J : +/- 5%	<u>Packaging code</u> P : 4" reel taping T : 7" reel taping Q : 10" reel taping G : 13" reel taping R : 0603 2mm pitch taping B : Bulk K : Bulkcase	<u>Termination code</u> _ = SnPb base (" " means blank) L = Sn base (Lead free) G = Au base S = Ag base
WF	04	H	1001	B	T	L
<u>Type code</u> F: Special function	<u>Size code</u> 25 : 2512 (6432) 20 : 2010 (5025) 18 : 1218 (3248) 12 : 1206 (3216) 10 : 1210 (3225) 08 : 0805 (2012) 06 : 0603 (1608) 04 : 0402 (1005)	<u>Functional code</u> G : High ohmic (>10Mohm) H : Thick film, Precision tolerance<1% K : Thick film, TCR50ppm M : Trimmable P : Power (>WR and WW series) S : Surge T : Thin film, TCR50ppm U : Thin film, TCR25ppm V : High voltage X : Special resistance Y : E24/E96 resistance with special termination (non SnPb or Sn base), ≥1%	<u>Resistance</u> E24(J tol.) : 2 significant digits followed by No. of zeros and a blank e.g. : 3ohm=3R0_ 10ohm=100_ 220ohm=221_ 56Kohm=563_ (" " means blank) E24,E96(F tol.) : 3 significant digits followed by No. of zeros	<u>Tolerance</u> B : +/- 0.1% C : +/- 0.25% D : +/- 0.5% F : +/- 1% G : +/- 2% J : +/- 5% K : +/- 10% L : +/- 15% M : +/- 20% P : Jumper	<u>Packaging code</u> P : 4" reel taping T : 7" reel taping Q : 10" reel taping G : 13" reel taping R : 0603 2mm pitch taping B : Bulk K : Bulkcase	<u>Termination code</u> _ = SnPb base (" " means blank) L = Sn base (Lead free) G = Au base S = Ag base
WA	04	Y	103	J	T	L
<u>Type code</u> A: Isolated Resistor Array	<u>Size code</u> 06 : 0603 (1608) 04 : 0402 (1005)	<u>Functional code</u> X : *4, convex Y : *2, convex W : *8, convex T : *4, concave U : *2, concave P : *3, convex (Attenuator)	<u>Resistance</u> E24(J tol.) : 2 significant digits followed by No. of zeros and a blank e.g. : 3ohm=3R0_ 10ohm=100_ 220ohm=221_ 56Kohm=563_ (" " means blank) E24,E96(F tol.) : 3 significant digits followed by No. of zeros	<u>Tolerance</u> F : +/- 1% J : +/- 5% P : Jumper	<u>Packaging code</u> T : 7" reel taping Q : 10" reel taping G : 13" reel taping B : Bulk K : Bulkcase	<u>Termination code</u> _ = SnPb base (" " means blank) L = Sn base (Lead free)
WT	04	X	103	J	T	L
<u>Type code</u> T: Network Resistors	<u>Size code</u> 04 : total package size 1206 (3216)	<u>Functional code</u> X : *8, convex	<u>Resistance</u> E24(J tol.) : 2 significant digits followed by No. of zeros and a blank e.g. : 3ohm=3R0_ 10ohm=100_ 220ohm=221_ 56Kohm=563_ (" " means blank) E24,E96(F tol.) : 3 significant digits followed by No. of zeros	<u>Tolerance</u> J : +/- 5%	<u>Packaging code</u> T : 7" reel taping B : Bulk	<u>Termination code</u> _ = SnPb base (" " means blank) L = Sn base (Lead free)

## Chip Resistors Product

