

FEATURES

- Metal material for large current and low loss.
- High performance (Isat) realized by metal dust core.
- Low loss realized with low Rdc.
- Closed magnetic circuit design reduces leakage flux.
- Vinyl thermal spray, better surface compactness.
- Operating Temp : -55℃~+125℃(Including self heating)



APPLICATIONS

- DC/DC converters, Pad, Smart phone, Notebooks, VR, AR.
- Portable gaming devices, Smart wear, Wi-Fi module, LCD displays, HDDs, DVCs, DSCs, etc
- Baseband power supply, Amplifier, Power management, Module power supply, Camera power Management.

PART NUMBERING

AWLU	0420	F	-	R47	M	P	A
①	②	③		④	⑤	⑥	⑦

① Series Name	
AWLU	TU-Core Molded SMD Power Inductors

④ Inductance	
Code (example)	Nominal inductance [μH]
1R0	1.0
100	10

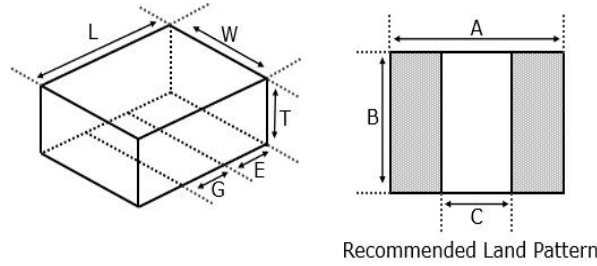
⑥ Coating Color Code	
P	Black
G	Gray

③ Feature Type
F Type

⑤ Inductance Tolerance	
M	20%

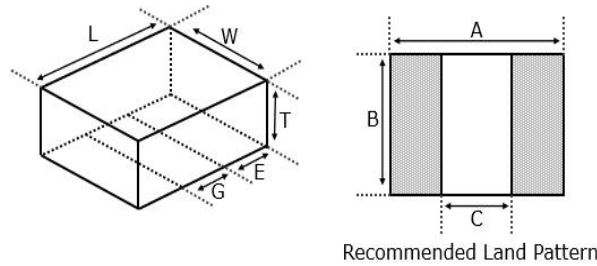
⑦ Design Code	
Routine	A
Special	B~Y

② External Dimensions [LxWxT mm]							
0412	4.1x4.1x1.2	0550	5.2x5.0x5.0	6621	6.4x6.6x2.1	0830	8.2x8.0x3.0
0415	4.1x4.1x1.5	5324	5.1x5.3x2.4	6622	6.4x6.6x2.2	0840	8.2x8.0x4.0
0418	4.1x4.1x1.8	5330	5.1x5.3x3.0	6624	6.4x6.6x2.4	0850	8.2x8.0x5.0
0420	4.1x4.1x2.0	5520	5.3x5.5x2.0	6630	6.4x6.6x3.0	0854	8.2x8.0x5.4
0421	4.1x4.1x2.1	5521	5.3x5.5x2.1	6640	6.4x6.6x4.0	0870	8.2x8.0x7.0
0424	4.1x4.1x2.4	5524	5.3x5.5x2.4	6650	6.4x6.6x5.0	0960	9.2x9.0x6.0
0430	4.1x4.1x3.0	5530	5.3x5.5x3.0	6660	6.4x6.6x6.0	0980	9.2x9.0x8.0
0440	4.1x4.1x4.0	5540	5.3x5.5x4.0	0715	7.2x7.0x1.5	1030	10.2x10x3
0512	5.2x5.0x1.2	5550	5.3x5.5x5.0	0720	7.2x7.0x2.0	1040	10.2x10x4
0518	5.2x5.0x1.8	0630	6.2x6.0x3.0	0730	7.2x7.0x3.0	1050	10.2x10x5
0520	5.2x5.0x2.0	0631	6.2x6.0x3.1	0740	7.2x7.0x4.0	1060	10.2x10x6
0524	5.2x5.0x2.4	0640	6.2x6.0x4.0	0750	7.2x7.0x5.0	1230	12.2x12x3
0528	5.2x5.0x2.8	0650	6.2x6.0x5.0	0760	7.2x7.0x6.0	1240	12.2x12x4
0530	5.2x5.0x3.0	0660	6.2x6.0x6.0	0820	8.2x8.0x2.0	1250	12.2x12x5
0531	5.2x5.0x3.1	6615	6.4x6.6x1.5	0822	8.2x8.0x2.2	1260	12.2x12x6
0540	5.2x5.0x4.0	6620	6.4x6.6x2.0	0824	8.2x8.0x2.4	1265	12.2x12x6.5

DIMENSIONS & RECOMMENDED LAND PATTERN


Unit: mm

Series	Dimensions					Recommended Land Pattern		
	L	W	T	G	E	A	B	C
	±0.2	±0.2	Max.	±0.2		Typ.	Typ.	Typ.
AWLU0412	4.1	4.1	1.2	1.3	1.40±0.2	4.10	4.10	1.10
AWLU0415	4.1	4.1	1.5	1.3	1.40±0.2	4.10	4.10	1.10
AWLU0418	4.1	4.1	1.8	1.3	1.40±0.2	4.10	4.10	1.10
AWLU0420	4.1	4.1	2	1.3	1.40±0.2	4.10	4.10	1.10
AWLU0421	4.1	4.1	2.1	1.3	1.40±0.2	4.10	4.10	1.10
AWLU0424	4.1	4.1	2.4	1.3	1.40±0.2	4.10	4.10	1.10
AWLU0430	4.1	4.1	3	1.3	1.40±0.2	4.10	4.10	1.10
AWLU0440	4.1	4.1	4	1.3	1.40±0.2	4.10	4.10	1.10
AWLU0512	5.2	5	1.2	2	1.60±0.2	5.50	5.30	1.60
AWLU0518	5.2	5	1.8	2	1.60±0.2	5.50	5.30	1.60
AWLU0520	5.2	5	2	2	1.60±0.2	5.50	5.30	1.60
AWLU0524	5.2	5	2.4	2	1.60±0.2	5.50	5.30	1.60
AWLU0528	5.2	5	2.8	2	1.60±0.2	5.50	5.30	1.60
AWLU0530	5.2	5	3	2	1.60±0.2	5.50	5.30	1.60
AWLU0531	5.2	5	3.1	2	1.60±0.2	5.50	5.30	1.60
AWLU0540	5.2	5	4	2	1.60±0.2	5.50	5.30	1.60
AWLU0550	5.2	5	5	2	1.60±0.2	5.50	5.30	1.60
AWLU5318	5.1	5.3	1.8	2	1.60±0.2	5.50	5.70	1.70
AWLU5320	5.1	5.3	2	2	1.60±0.2	5.50	5.70	1.90
AWLU5324	5.1	5.3	2.4	2	1.60±0.2	5.50	5.70	1.70
AWLU5330	5.1	5.3	3	2	1.60±0.2	5.50	5.70	1.70
AWLU5340	5.1	5.3	4	2	1.60±0.2	5.50	5.70	1.70
AWLU5520	5.3	5.5	2	1.9	1.70±0.3	5.60	6.00	1.30
AWLU5521	5.3	5.5	2.1	1.9	1.70±0.3	5.60	6.00	1.30
AWLU5524	5.3	5.5	2.4	1.9	1.70±0.3	5.60	6.00	1.30
AWLU5530	5.3	5.5	3	1.9	1.70±0.3	5.60	6.00	1.30
AWLU5540	5.3	5.5	4	1.9	1.70±0.3	5.60	6.00	1.30
AWLU5550	5.3	5.5	5	1.9	1.70±0.3	5.60	6.00	1.30
AWLU0630	6.2	6	3	2.6	1.80±0.2	6.50	6.30	2.00
AWLU0631	6.2	6	3.1	2.6	1.80±0.2	6.50	6.30	2.00
AWLU0640	6.2	6	4	2.6	1.80±0.2	6.50	6.30	2.00
AWLU0650	6.2	6	5	2.6	1.80±0.2	6.50	6.30	2.00
AWLU0660	6.2	6	6	2.6	1.80±0.2	6.50	6.30	2.00
AWLU6615	6.4	6.6	1.5	2.4	2.00±0.3	6.80	7.00	2.00

DIMENSIONS & RECOMMENDED LAND PATTERN


Unit: mm

Series	Dimensions					Recommended Land Pattern		
	L	W	T	G	E	A	B	C
	±0.2	±0.2	Max.	±0.2		Typ.	Typ.	Typ.
AWLU6620	6.4	6.6	2	2.4	2.00±0.3	6.80	7.00	2.00
AWLU6621	6.4	6.6	2.1	2.4	2.00±0.3	6.80	7.00	2.00
AWLU6622	6.4	6.6	2.2	2.4	2.00±0.3	6.80	7.00	2.00
AWLU6624	6.4	6.6	2.4	2.4	2.00±0.3	6.80	7.00	2.00
AWLU6630	6.4	6.6	3	2.4	2.00±0.3	6.80	7.00	2.00
AWLU6640	6.4	6.6	4	2.4	2.00±0.3	6.80	7.00	2.00
AWLU6650	6.4	6.6	5	2.4	2.00±0.3	6.80	7.00	2.00
AWLU6660	6.4	6.6	6	2.4	2.00±0.3	6.80	7.00	2.00
AWLU0715	7.2	7	1.5	2.6	2.30±0.2	7.50	7.30	2.40
AWLU0720	7.2	7	2	2.6	2.30±0.2	7.50	7.30	2.40
AWLU0730	7.2	7	3	2.6	2.30±0.2	7.50	7.30	2.40
AWLU0740	7.2	7	4	2.6	2.30±0.2	7.50	7.30	2.40
AWLU0750	7.2	7	5	2.6	2.30±0.2	7.50	7.30	2.40
AWLU0760	7.2	7	6	2.6	2.30±0.2	7.50	7.30	2.40
AWLU0820	8.2	8	2	2.8	2.70±0.2	8.50	8.30	2.60
AWLU0822	8.2	8	2.2	2.8	2.70±0.2	8.50	8.30	2.60
AWLU0824	8.2	8	2.4	2.8	2.70±0.2	8.50	8.30	2.60
AWLU0830	8.2	8	3	2.8	2.70±0.2	8.50	8.30	2.60
AWLU0840	8.2	8	4	2.8	2.70±0.2	8.50	8.30	2.60
AWLU0850	8.2	8	5	2.8	2.70±0.2	8.50	8.30	2.60
AWLU0854	8.2	8	5.4	2.8	2.70±0.2	8.50	8.30	2.60
AWLU0870	8.2	8	7	2.8	2.70±0.2	8.50	8.30	2.60
AWLU0960	9.2	9	6	3.1	2.90±0.2	9.50	9.30	2.90
AWLU0980	9.2	9	8	3.1	2.90±0.2	9.50	9.30	2.90
AWLU1030	10.2	10	3	3.6	3.30±0.2	10.50	10.30	3.20
AWLU1040	10.2	10	4	3.6	3.30±0.2	10.50	10.30	3.20
AWLU1050	10.2	10	5	3.6	3.30±0.2	10.50	10.30	3.20
AWLU1060	10.2	10	6	3.6	3.30±0.2	10.50	10.30	3.20
AWLU1230	12.2	12	3	4.6	3.80±0.2	12.50	12.30	3.60
AWLU1240	12.2	12	4	4.6	3.80±0.2	12.50	12.30	3.60
AWLU1245	12.2	12	4.5	4.6	3.80±0.2	12.50	12.30	3.60
AWLU1250	12.2	12	5	4.6	3.80±0.2	12.50	12.30	3.60
AWLU1260	12.2	12	6	4.6	3.80±0.2	12.50	12.30	3.60
AWLU1265	12.2	12	6.5	4.6	3.80±0.2	12.50	12.30	3.60

ELECTRICAL CHARACTERISTICS

● AWLU04 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz, 1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU0412F-R22MPA	0.22	±20%	7.5	14	15	13	14
AWLU0412F-R22MGA	0.22	±20%	7.5	14	15	13	14
AWLU0412F-R47MPD	0.47	±20%	8.5	10	11	11	12
AWLU0412F-R47MGD	0.47	±20%	8.5	10	11	11	12
AWLU0415F-50NMGA	0.05	±20%	0.85	25	30	18	21
AWLU0415F-R10MGA	0.1	±20%	2.2	27	30	26	29
AWLU0415F-R12MGA	0.12	±20%	2.3	25	27	15	17
AWLU0415F-R47MPA	0.47	±20%	7	12	13	12	13
AWLU0415F-R47MGA	0.47	±20%	7	12	13	12	13
AWLU0415F-1R0MGA	1	±20%	15	8	9	10	11
AWLU0415F-1R0MGD	1	±20%	13	7	9	9.6	10.5
AWLU0415F-1R5MGA	1.5	±20%	23	6	7	7	8.5
AWLU0418F-R68MGA	0.68	±20%	8.5	11	13	11.5	13
AWLU0420F-R10MPA	0.1	±20%	1.6	30	35	30.5	34
AWLU0420F-R10MGA	0.1	±20%	1.6	30	35	30.5	34
AWLU0420F-R12MPA	0.12	±20%	1.7	29	31	30.5	34
AWLU0420F-R12MGA	0.12	±20%	1.7	29	31	30.5	34
AWLU0420F-R15MPA	0.15	±20%	2.2	24	28	25.5	28.5
AWLU0420F-R15MGA	0.15	±20%	2.2	24	28	25.5	28.5
AWLU0420F-R22MPA	0.22	±20%	2.7	19	20	19	20
AWLU0420F-R22MGA	0.22	±20%	2.7	19	20	19	20
AWLU0420F-R22MGD	0.22	±20%	2.2	24	26	20	22
AWLU0420F-R33MPD	0.33	±20%	3.85	17	18	17.5	18
AWLU0420F-R33MGD	0.33	±20%	3.85	17	18	17.5	18
AWLU0420F-R33MPB	0.33	±20%	3.3	18	19	20.5	23
AWLU0420F-R33MGB	0.33	±20%	3.3	18	19	20.5	23
AWLU0420F-R47MGB	0.47	±20%	4.8	14.2	15.2	16	17
AWLU0420F-R47MGD	0.47	±20%	4.9	14	15	16	17
AWLU0420F-R47MGE	0.47	±20%	4.7	14	15	16	17
AWLU0420F-R47MGG	0.47	±20%	4.5	14.2	15.5	16.5	17.5
AWLU0420F-R56MPA	0.56	±20%	5.6	13	14	16.5	18.5
AWLU0420F-R56MGA	0.56	±20%	5.6	13	14	16.5	18.5
AWLU0420F-R60MGA	0.6	±20%	5.6	12.5	14	13.5	14.5
AWLU0420F-R68MPA	0.68	±20%	6.2	12	13	13	14
AWLU0420F-R68MGA	0.68	±20%	6.2	12	13	13	14
AWLU0420F-R82MPA	0.82	±20%	8	11	12	12	13
AWLU0420F-R82MGA	0.82	±20%	8	11	12	12	13
AWLU0420F-1R0MGD	1	±20%	9	9.5	11	12.6	14
AWLU0420F-1R2MPA	1.2	±20%	12	9	10	9	10

ELECTRICAL CHARACTERISTICS
● AWLU04 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	m Ω	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU0420F-1R2MGA	1.2	$\pm 20\%$	12	9	10	9	10
AWLU0420F-1R5MGA	1.5	$\pm 20\%$	16	8.5	9.5	7	8
AWLU0420F-1R5MGB	1.5	$\pm 20\%$	14	8	9	9	10
AWLU0420F-2R2MGA	2.2	$\pm 20\%$	23	7	8	7	8
AWLU0420F-3R3MPA	3.3	$\pm 20\%$	28	4.7	5.6	6.5	8
AWLU0420F-3R3MGA	3.3	$\pm 20\%$	28	4.7	5.6	6.5	8
AWLU0421F-1R0MPA	1	$\pm 20\%$	8.5	11	11.5	11.5	12.5
AWLU0421F-1R0MGA	1	$\pm 20\%$	8.5	11	11.5	11.5	12.5
AWLU0424F-R10MGA	0.1	$\pm 20\%$	1.6	35	40	32	36
AWLU0430F-R12MGA	0.12	$\pm 20\%$	1.2	35	40	30.5	34
AWLU0430F-R47MGA	0.47	$\pm 20\%$	4	20	24	17	19
AWLU0430F-R68MGA	0.68	$\pm 20\%$	5.2	16	20	14	16
AWLU0430F-1R5MGA	1.5	$\pm 20\%$	11.3	10.5	12.5	7	8.5
AWLU0430F-1R8MGA	1.8	$\pm 20\%$	15	9.5	11.5	7	8.5
AWLU0430F-2R2MGA	2.2	$\pm 20\%$	17	9	11	6.5	7.3
AWLU0430F-3R3MGA	3.3	$\pm 20\%$	30	7	8.5	5.5	6.5
AWLU0430F-4R7MGA	4.7	$\pm 20\%$	32.4	6.5	7.8	5.9	6.6
AWLU0430F-5R6MGA	5.6	$\pm 20\%$	35	6.2	7.5	5	6
AWLU0430F-6R8MGA	6.8	$\pm 20\%$	48	6	7	4	5
AWLU0440F-1R5MGA	1.5	$\pm 20\%$	7.9	8	10	7.5	8.5

● AWLU05 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	m Ω	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU0512F-R10MGA	0.1	$\pm 20\%$	2.5	30	35	20	22
AWLU0512F-R15MGA	0.15	$\pm 20\%$	5	26	30	15.3	17
AWLU0512F-R47MGA	0.47	$\pm 20\%$	8	13.5	15	12	13
AWLU0512F-1R0MGA	1	$\pm 20\%$	18	8.5	9.5	7.5	8.5
AWLU0518F-R22MGA	0.22	$\pm 20\%$	5	27	35	20	22
AWLU0518F-R47MGA	0.47	$\pm 20\%$	6.2	18	20	15	17
AWLU0520F-R33MGA	0.33	$\pm 20\%$	3.7	21	24	17	20
AWLU0520F-R68MGA	0.68	$\pm 20\%$	5.5	17	20	14	15
AWLU0520F-1R0MGA	1	$\pm 20\%$	8.4	14	16	13	14
AWLU0520F-1R5MGA	1.5	$\pm 20\%$	17	10	12	10	13
AWLU0520F-2R2MGA	2.2	$\pm 20\%$	29	8.5	9.5	6.5	7
AWLU0520F-3R3MGA	3.3	$\pm 20\%$	43	8	10	6	7

ELECTRICAL CHARACTERISTICS
● AWLU05 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU0524F-2R2MGA	2.2	±20%	16	8	10	7	8.5
AWLU0528F-1R5MGA	1.5	±20%	11.2	12.6	14	10.6	12
AWLU0528F-3R3MGA	3.3	±20%	30	5	5.7	5.5	6.5
AWLU0530F-R13MGA	0.13	±20%	1.5	47	52	33	38
AWLU0530F-R15MGA	0.15	±20%	1.45	41	43	24	25
AWLU0530F-R16MGA	0.16	±20%	1.5	40	42	23	24
AWLU0530F-R22MGA	0.22	±20%	1.65	34	36	20	22
AWLU0530F-R30MGA	0.3	±20%	1.8	27	29	21	22
AWLU0530F-R33MGA	0.33	±20%	2	26	28	19	21
AWLU0530F-R47MGA	0.47	±20%	3	23	26	18	21
AWLU0530F-R56MGA	0.56	±20%	3.6	21	24	18	20
AWLU0530F-R68MGA	0.68	±20%	4.6	18.5	21	16	19
AWLU0530F-1R0MGA	1	±20%	7.6	16.5	19	10	12.2
AWLU0530F-1R2MGA	1.2	±20%	6	13.5	15	11	13
AWLU0530F-2R2MGA	2.2	±20%	14	10	12	9	10
AWLU0530F-3R3MGA	3.3	±20%	27	9	10	8	9
AWLU0530F-4R7MGA	4.7	±20%	32	8	9	6	7
AWLU0530F-6R8MGA	6.8	±20%	40	7	8	5	6
AWLU0530F-100MGA	10	±20%	68	4.5	5.5	4.5	5
AWLU0531F-1R5MGA	1.5	±20%	11	10.6	11	12.6	14
AWLU0540F-1R0MGA	1	±20%	5.5	16	18	15	17
AWLU0540F-2R2MGA	2.2	±20%	10.5	11.5	12.5	9	11
AWLU0540F-4R7MGA	4.7	±20%	36	7	8.5	5.5	7
AWLU0540F-6R8MGA	6.8	±20%	44	7	9	5	7
AWLU0540F-100MGA	10	±20%	52	5.7	6.5	4.5	5.5
AWLU0540F-220MGA	22	±20%	115	4	4.6	2.5	3.3
AWLU0550F-R68MGA	0.68	±20%	3.8	24	28	20	22
AWLU0550F-6R8MGA	6.8	±20%	30	8	10	6	7.5

● AWLU53 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU5318F-1R5MGA	1.5	±20%	14.5	10	12	8	10
AWLU5318F-R68MGA	0.68	±20%	7	16	20	12	14
AWLU5324F-R12MGA	0.12	±20%	0.9	47	54	30	32
AWLU5324F-R15MGA	0.15	±20%	1.5	43	48	23.5	24.5

ELECTRICAL CHARACTERISTICS
● AWLU53 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU5324F-R22MGA	0.22	±20%	2	37	41.1	20.3	21.4
AWLU5330F-R10MGB	0.1	±20%	0.94	45	52	36	39
AWLU5330F-R15MGA	0.15	±20%	0.93	50	55	42	45
AWLU5330F-R15MGF	0.15	±20%	1.3	50	55	33	37
AWLU5330F-R22MGA	0.22	±20%	1.55	32	38	30	33
AWLU5330F-R33MGA	0.33	±20%	2.2	28	32	26	29
AWLU5330F-R47MGA	0.47	±20%	3	23	29	21.5	24
AWLU5330F-R47MGB	0.47	±20%	3	23	29	21.5	24
AWLU5330F-1R0MGA	1	±20%	6	17	19.5	15.5	17
AWLU5330F-1R5MGA	1.5	±20%	9	18.5	21	11	12.5
AWLU5330F-2R2MGA	2.2	±20%	11.8	10.5	12	10.5	12
AWLU5330F-3R3MGA	3.3	±20%	17	9	10	9	10
AWLU5330F-4R7MGA	4.7	±20%	26.4	8	9	8	9
AWLU5340F-R15MGA	0.15	±20%	10	50	55	45	50
AWLU5340F-R22MGA	0.22	±20%	1.5	40	45	40	44

● AWLU55 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU5520F-50NMGA	0.05	±20%	0.78	50	60	40	50
AWLU5521F-1R5MGA	1.5	±20%	13	11	14	10.5	12
AWLU5524F-R15MGA	0.15	±20%	1.15	41	45	23	27
AWLU5524F-R68MGA	0.68	±20%	5	18	21	14	16
AWLU5530F-R10MGB	0.1	±20%	0.84	52	58	35	39
AWLU5530F-R28MGA	0.28	±20%	1.9	32	35	19	23
AWLU5530F-R33MGA	0.33	±20%	2.1	30	34	18	22
AWLU5530F-R33MGB	0.33	±20%	2.1	28	30	26	28
AWLU5530F-R47MGA	0.47	±20%	2.7	24	28	16	19
AWLU5530F-R47MGB	0.47	±20%	2.7	26	30	24	26
AWLU5530F-R68MGA	0.68	±20%	4.2	22	26	14	17
AWLU5530F-1R0MGA	1	±20%	6	17	19.5	14	16
AWLU5530F-1R5MGA	1.5	±20%	8.6	12	15	13	14.5
AWLU5530F-2R2MGA	2.2	±20%	12	10	12.5	8	10
AWLU5530F-2R2MGB	2.2	±20%	14.5	9.2	10.5	9.7	11
AWLU5530F-3R3MGA	3.3	±20%	21	8.5	11	7.5	9
AWLU5540F-2R2MGA	2.2	±20%	7.9	12	14	12	14

ELECTRICAL CHARACTERISTICS
● AWLU55 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU5550F-2R2MGA	2.2	±20%	8.2	11.5	13	12.5	13.8
AWLU5550F-3R3MGA	3.3	±20%	11.5	10	11.5	10	11.3
AWLU5550F-4R7MGA	4.7	±20%	15.5	8.5	10	9	9.7
AWLU5550F-8R2MGA	8.2	±20%	32.5	6.1	7	6.1	6.5
AWLU5550F-100MGA	10	±20%	38	5.5	6.5	6	7

● AWLU06 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU0630F-R15MGA	0.15	±20%	1.35	48	55	29	32
AWLU0630F-R22MGA	0.22	±20%	1.7	42	46	23	25
AWLU0630F-R33MGA	0.33	±20%	2.2	33	36	16	18
AWLU0630F-R56MGA	0.56	±20%	2.9	25	28	14	16
AWLU0630F-R68MGA	0.68	±20%	4.5	24	27	13	15.5
AWLU0630F-1R5MGA	1.5	±20%	7.8	15	18	12	15
AWLU0630F-2R2MGA	2.2	±20%	11	12.5	15	10	12
AWLU0630F-3R3MGA	3.3	±20%	18	11	13.5	7.5	9
AWLU0630F-4R7MGA	4.7	±20%	19	9.5	11	7	8.3
AWLU0630F-5R6MGA	5.6	±20%	24	8	10	5.3	6.2
AWLU0630F-100MGA	10	±20%	58	5.5	6.3	3.7	4.3
AWLU0631F-2R2MGA	2.2	±20%	10	12.2	14	11	12
AWLU0640F-R15MGA	0.15	±20%	1.32	60	65	30	35
AWLU0640F-1R0MGA	1	±20%	5.8	18	20	14	16
AWLU0640F-2R2MGA	2.2	±20%	7	15	18	14	16
AWLU0640F-4R7MGA	4.7	±20%	18	8.5	10.5	8	9.5
AWLU0640F-100MGA	10	±20%	42	7.5	9	5.3	6.2
AWLU0650F-1R5MGA	1.5	±20%	6.3	19	21	16	18
AWLU0650F-2R2MGA	2.2	±20%	7	16	19	14	16
AWLU0650F-3R3MGA	3.3	±20%	8	12	14	12	13
AWLU0650F-4R7MGA	4.7	±20%	10.5	10	12	11	12.5
AWLU0650F-8R2MGA	8.2	±20%	23	7	7.5	8	10
AWLU0660F-1R0MGA	1	±20%	3.1	26	29	18	21
AWLU0660F-1R5MGA	1.5	±20%	4.2	21	25	15	18
AWLU0660F-2R2MGA	2.2	±20%	5.4	17	20	13	14.5
AWLU0660F-3R3MGA	3.3	±20%	8.4	13	14	12	13
AWLU0660F-4R7MGA	4.7	±20%	10.8	11.5	13	11.5	12.8

ELECTRICAL CHARACTERISTICS
● AWLU06 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU0660F-6R8MGA	6.8	±20%	19	11	13	9.5	11
AWLU0660F-100MGA	10	±20%	21	9	11	7.3	8.5
AWLU0660F-150MGA	15	±20%	43.5	5	5.8	4.5	6
AWLU0660F-220MGA	22	±20%	60	4.8	5.6	3.8	5

● AWLU66 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU6615F-1R0MGA	1	±20%	12.5	12	15	10	12
AWLU6620F-R15MGA	0.15	±20%	1.3	39	43	32	37
AWLU6620F-R15MGR	0.15	±20%	1.18	46	52	35	38
AWLU6621F-R33MGA	0.33	±20%	3	26	30	23	26
AWLU6622F-3R3MGA	3.3	±20%	21	10	12	10	11
AWLU6622F-4R7MGA	4.7	±20%	30	8	9	6	7
AWLU6624F-R15MGA	0.15	±20%	1.2	46	51	37	40
AWLU6624F-R22MGA	0.22	±20%	1.45	32	35	31.5	35
AWLU6624F-R33MGA	0.33	±20%	2.7	32	35	23	25
AWLU6630F-R12MGA	0.12	±20%	0.82	63	69	39	42
AWLU6630F-R15MGA	0.15	±20%	0.85	56	63	41	45
AWLU6630F-R18MGA	0.18	±20%	1.2	50	55	33	36
AWLU6630F-R24MGB	0.24	±20%	1.05	38	42	35	38
AWLU6630F-R33MGA	0.33	±20%	2	38	43	29	32
AWLU6630F-R33MGB	0.33	±20%	2.1	40	45	28	30
AWLU6630F-R33MGD	0.33	±20%	1.9	45	50	25	28
AWLU6630F-R33MGR	0.33	±20%	1.75	45	50	25	28
AWLU6630F-1R0MGA	1	±20%	6	22	24	13	15
AWLU6630F-1R5MGA	1.5	±20%	7.5	16	18	14.8	15.5
AWLU6630F-2R2MGA	2.2	±20%	12	13.5	16	12	14
AWLU6630F-4R7MGA	4.7	±20%	23	9.5	12	8.5	10
AWLU6630F-6R8MGA	6.8	±20%	32	8	11	7.5	8.5
AWLU6640F-R12MGA	0.12	±20%	0.75	77	81	42	45
AWLU6640F-R30MGA	0.3	±20%	1.54	40	45	33	36
AWLU6650F-2R2MGA	2.2	±20%	7	17	20	15.5	17
AWLU6650F-6R8MGA	6.8	±20%	18	7.5	8.5	8.5	9.5
AWLU6650F-100MGA	10	±20%	32	5.8	6.7	6.5	7.5
AWLU6660F-5R6MGA	5.6	±20%	15	9.5	11	10	11.5

ELECTRICAL CHARACTERISTICS
● AWLU66 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU6660F-6R8MGA	6.8	±20%	20	8.5	9.5	9	10
AWLU6660F-330MGA	33	±20%	90	3.5	4	3.6	4

● AWLU07 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU0715F-R68MGA	0.68	±20%	10.5	14.5	16	10	11
AWLU0715F-2R2MGA	2.2	±20%	36	6.3	6.8	5	5.5
AWLU0715F-100MGA	10	±20%	145	3.5	3.8	2.5	3
AWLU0720F-1R5MGA	1.5	±20%	12	15	16	10	11
AWLU0720F-2R2MGA	2.2	±20%	15	10.5	12	9	11
AWLU0720F-4R7MGA	4.7	±20%	42	6.5	7.5	5	6
AWLU0730F-R24MGA	0.24	±20%	1.3	46	49	31	35
AWLU0730F-R47MGA	0.47	±20%	3.2	31	33	27	28
AWLU0730F-R68MPA	0.68	±20%	4	26	28	23	24
AWLU0730F-R68MGA	0.68	±20%	4	26	28	23	24
AWLU0730F-1R0MGA	1	±20%	4.5	21	26	17	20
AWLU0730F-1R5MGA	1.5	±20%	8.3	19	22	12	15
AWLU0730F-2R2MGA	2.2	±20%	13	18	21	10	13
AWLU0730F-3R3MGA	3.3	±20%	15	12	14	9.5	12
AWLU0740F-4R7MPA	4.7	±20%	16.5	13.5	14.5	8	9
AWLU0730F-4R7MGA	4.7	±20%	19	9.5	12	8.5	10
AWLU0730F-5R6MGA	5.6	±20%	26	9	10.5	8	9
AWLU0730F-8R2MGA	8.2	±20%	40	7	8.5	5.5	6.5
AWLU0730F-100MGA	10	±20%	45	6.5	8	5	6
AWLU0730F-220MGA	22	±20%	120	4.5	5.5	3.3	3.8
AWLU0740F-R22MGA	0.22	±20%	1.05	45	50	28	32
AWLU0740F-4R7MGA	4.7	±20%	16.5	13.5	14.5	8	9
AWLU0750F-1R0MGA	1	±20%	3.2	29	32	19	20
AWLU0750F-2R2MGA	2.2	±20%	6.6	23	26	17	20
AWLU0750F-3R3MGA	3.3	±20%	10	16	18.5	13	15
AWLU0750F-4R7MGA	4.7	±20%	12.5	14.5	17	12	13
AWLU0750F-100MGA	10	±20%	26	9	11	8	9
AWLU0750F-220MPA	22	±20%	60.5	6.5	7.5	4.5	5
AWLU0750F-220MGA	22	±20%	60.5	6.5	7.5	4.5	5
AWLU0750F-330MGA	33	±20%	99	5.5	6.5	3.5	4

ELECTRICAL CHARACTERISTICS

● AWLU07 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU0750F-470MGA	47	±20%	140	4.5	5.3	3	3.3
AWLU0760F-1R5MGA	1.5	±20%	3.8	25	28	20	23
AWLU0760F-2R2MGA	2.2	±20%	6	24	27	17	19
AWLU0760F-4R7MGA	4.7	±20%	14.5	16	18	12	13
AWLU0760F-4R7MGB	4.7	±20%	8	14	16	13	14
AWLU0760F-4R7MGD	4.7	±20%	9	15	17	12	13
AWLU0760F-6R8MGA	6.8	±20%	17	13	15	8	9.5
AWLU0760F-100MGA	10	±20%	28	10.5	12.5	7.5	8.5

● AWLU08 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU0820F-2R2MGA	2.2	±20%	12	11	13	11	12.5
AWLU0820F-3R3MGA	3.3	±20%	21	9.5	11.5	8.5	10
AWLU0820F-4R7MGA	4.7	±20%	34	8	10	7	8
AWLU0822F-2R2MGA	2.2	±20%	10.8	13	14	13	14
AWLU0824F-2R2MGA	2.2	±20%	10	13.5	15	14	15
AWLU0830F-2R2MGA	2.2	±20%	8	18	21	14	15
AWLU0840F-1R0MGA	1	±20%	3.2	32	35	24	26
AWLU0840F-1R5MGA	1.5	±20%	4.8	30	33	22	24
AWLU0840F-2R2MGA	2.2	±20%	6	21	23	20	22
AWLU0840F-4R7MGA	4.7	±20%	12	15	18	11.5	13
AWLU0840F-100MGA	10	±20%	30	10	13	8	10
AWLU0840F-150MGA	15	±20%	50	8	10	6	8
AWLU0850F-3R3MGA	3.3	±20%	7.9	21	25	14.5	15.5
AWLU0850F-220MGA	22	±20%	50	7.5	9	6.5	7.5
AWLU0854F-1R0MGA	1	±20%	2.2	35	45	32	36
AWLU0854F-2R2MGA	2.2	±20%	4.7	25	30	17	20
AWLU0854F-4R7MGA	4.7	±20%	8.5	17	20	14	17
AWLU0854F-6R8MGA	6.8	±20%	15	14	17	12	14
AWLU0854F-100MGA	10	±20%	22	10	13	10	11.5
AWLU0854F-220MGA	22	±20%	47	8.5	10	6.8	7.8
AWLU0870F-100MGA	10	±20%	18.5	13	16	11	12

ELECTRICAL CHARACTERISTICS
● AWLU09 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU0960F-100MGA	10	±20%	13	11.5	13	9	10
AWLU0980F-100MGA	10	±20%	10	13	15	13	14.5

● AWLU10 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU1030F-2R2MGA	2.2	±20%	7	18	20	16	18
AWLU1030F-3R3MGA	3.3	±20%	12	15	16	15	16
AWLU1030F-4R7MGA	4.7	±20%	18	13	14	12	13
AWLU1030F-4R7MGB	4.7	±20%	19	14	16	11	12
AWLU1030F-6R8MGA	6.8	±20%	25	10	11	10	11
AWLU1030F-100MGA	10	±20%	38	9	10	7	8
AWLU1040F-R47MGA	0.47	±20%	1.3	40	42	30	32
AWLU1040F-1R0MGA	1	±20%	3	30	32	24	26
AWLU1040F-2R2MGA	2.2	±20%	6	23	25	16	17
AWLU1040F-3R3MGA	3.3	±20%	7.8	19	21	15	16
AWLU1040F-4R7MGA	4.7	±20%	12.5	17	19	13	14
AWLU1040F-6R8MGA	6.8	±20%	16	14	15	11	12
AWLU1040F-100MGA	10	±20%	19.5	10	13	9	11
AWLU1040F-220MGA	22	±20%	51	5.5	6.5	5.5	6.5
AWLU1050F-1R0MGA	1	±20%	2.2	32	34	26	28
AWLU1050F-1R5MGA	1.5	±20%	3	30	32	25.5	28
AWLU1050F-2R2MGA	2.2	±20%	4.2	29	32	25	28
AWLU1050F-3R3MGA	3.3	±20%	6.5	22	24	17	18
AWLU1050F-4R7MGA	4.7	±20%	8	19	21	15	16
AWLU1050F-100MGA	10	±20%	17	12	15	11	12
AWLU1050F-220MGA	22	±20%	38	8	9.5	7.5	9
AWLU1060F-3R3MGA	3.3	±20%	5.6	24	26	18	19
AWLU1060F-100MGA	10	±20%	15	16	20	12	14

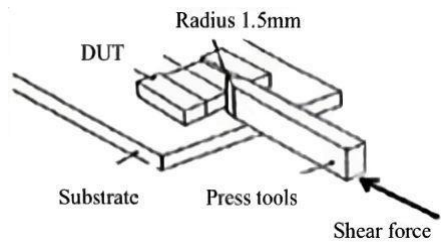
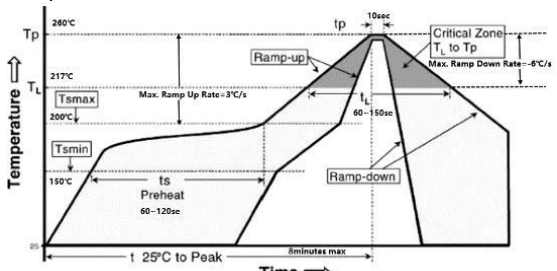
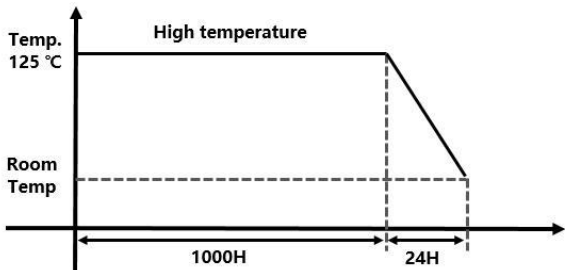
ELECTRICAL CHARACTERISTICS

● AWLU12xx Series

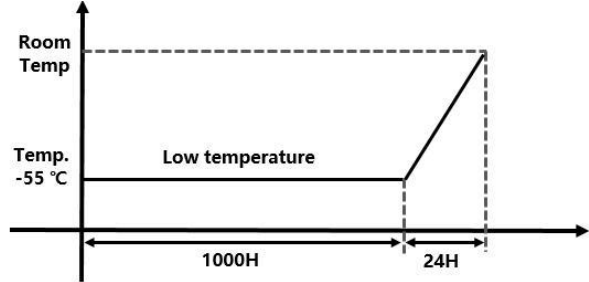
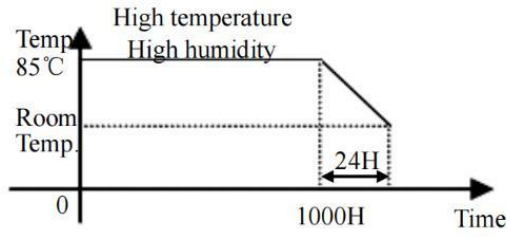
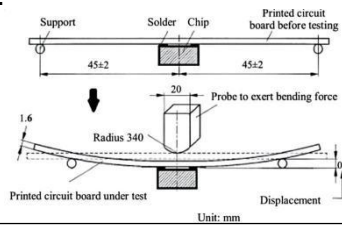
Part Number	Inductance	Inductance Tolerance	DC Resistance	Saturation Current		Heat Rating Current	
	@1MHz,1V		Max.	Max.	Typ.	Max.	Typ.
Unit	μH	-	mΩ	A		A	
Symbol	L	-	DCR	Isat		Irms	
AWLU1230F-1R0MGA	1	±20%	3	32	35	24	28
AWLU1230F-1R5MGA	1.5	±20%	4.2	28	32	21	24
AWLU1230F-2R2MGA	2.2	±20%	5.5	25	28	18	20
AWLU1230F-3R3MGA	3.3	±20%	7	20	24	16	18
AWLU1240F-6R8MGA	6.8	±20%	10	16	20	13	15
AWLU1245F-100MGA	10	±20%	19	10	12	10	12
AWLU1250F-4R7MGD	4.7	±20%	5	22	25	22	26
AWLU1260F-4R7MGD	4.7	±20%	4.5	24	27	19	21
AWLU1260F-100MGA	10	±20%	12	13	15	12	15
AWLU1260F-220MGA	22	±20%	25	10	12	12	14
AWLU1265F-3R3MGA	3.3	±20%	4.5	30	33	18	20

- All test data is referenced to 25 °C ambient.
- Irms:DC current (A) that will cause an approximate ΔT of 40 °C.
- Isat:DC current (A) that will cause L0 to drop approximately 30%.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

RELIABILITY TEST

Item	Requirements	Test Methods and Remarks
1. Solderability	1.No case deformation or change in appearance. 2.Terminal area must have 95% min. Solder coverage.	1.Temperature: $245 \pm 5^{\circ}\text{C}$. 2.Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free). 3.Sample immersion tin furnace $5 \pm 0.5\text{s}$.
2. Adhesion of teral electrode	1.Strong bond between the pad and the core, without come off PCB.	1.Preconditioning: 245°C Reflow 3 times 2.Inductors shall be subjected to $(260+0/-5^{\circ}\text{C})^{\circ}\text{C}$ for $(10 \pm 5)\text{s}$ Soldering in the base whit 0.3mm solder. 3.Apply electrode way plus tax X N for (10 ± 1) seconds. 
3. Reflow test	1.No physical damage. 2. $ \Delta L_0/L_0 \leq 10\%$	1.The peak temperature: $260+0/-5^{\circ}\text{C}$. 2.Reflow:3times. 3.Temperature curve is as below. 
4. High temperature	1.No physical damage. 2. $ \Delta L_0/L_0 \leq 10\%$	1.Preconditioning: Bake at $125+5^{\circ}\text{C}$ for $24 \pm 0.5\text{H}$, 245°C Reflow 3 times 2.Temperature: $125 \pm 2^{\circ}\text{C}$. 3.Time : 1000 hours. 4.Measurement at 24 ± 4 hours after test conclusion. 

RELIABILITY TEST

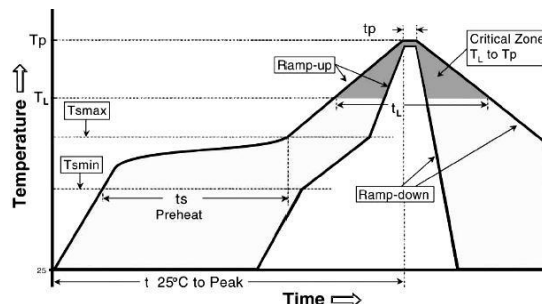
Item	Requirements	Test Methods and Remarks
5. Low temperature	1.No physical damage. 2. $ \Delta L_0/L_0 \leq 10\%$	<p>1.Preconditioning: Bake at 125+5℃ for 24±0.5H, 245℃Reflow 3 times 2.Temperature: -55±2℃. 3.Time : 1000 hours. 4.Measurement at 24±4 hours after test conclusion.</p> 
6. Thermal shock	1.No physical damage. 2. $ \Delta L_0/L_0 \leq 10\%$	<p>1.Preconditioning: Bake at 125+5℃ for 24±0.5H, 245℃Reflow 3 times 2.Repeat 500 cycle as follow : (-55±2℃ ,30±3minutes) (Room temperature, 5 minutes) (+125 ± 2℃ ,30 ± 3minutes) (Room temperature, 5 minutes) 3.Measurement at 24±4 hours after test conclusion.</p>
7. Resistance to Soldering Heat	1.No physical damage. 2. $ \Delta L_0/L_0 \leq 10\%$	<p>1.Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free). 2.Solder Temperature: 260±5℃. 3.Immersion Time: 10±1sec.</p>
8. Static Humidity	1.No physical damage. 2. $ \Delta L_0/L_0 \leq 10\%$	<p>1.Preconditioning: Bake at 125+5℃ for 24±0.5H, 245℃Reflow 3 times 2.1000 hours, 85℃/85%RH. 3.Unpowered. 4.Measurement at 24±4 hours after test conclusion.</p> 
9. Board Flex	1.No physical damage. 2. $ \Delta L_0/L_0 \leq 10\%$	<p>1.Preconditioning: 245℃Reflow 3 times 2.Part mounted on a 100mm*40mm FR4 PCB board, which is 1.6±0.2 mm thick and as a Layer-thickness 35μm ± 10 μm. 3.Bending speed is 1mm/s. 4.Keeping the P.C Board 2 mm minimum for 60 seconds.</p>  <p style="text-align: center;">Unit: mm</p>

RELIABILITY TEST

Item	Requirements	Test Methods and Remarks
10. Vibration	1.No physical damage. 2. $ \Delta L_0/L_0 \leq 10\%$	1.Preconditioning: 245℃Reflow 3 times 2.Frequency range : 10~2000Hz. 3.Amplitude: 1.5mm or 20g. 4.Sweep time and duration: 10~2000~10Hz for 20 minutes. 5.Each four hours in X,Y,Z direction, 12hours in total.
11. Mechanical Shock	1.No physical damage. 2. $ \Delta L_0/L_0 \leq 10\%$	1.Preconditioning: 245℃Reflow 3 times 2.Peak acceleration:100G/S 3.Duration of pulse:6ms 4.3times in each of 6(±X, ±Y, ±Z) axes.
12. Loading at High Temperature	1.No physical damage. 2. $ \Delta L_0/L_0 \leq 10\%$	1.Preconditioning: Bake at 125±5℃ for 24±0.5H, 245℃Reflow 3 times 2.Temperature: 85±2℃. 3.Time : 1000 hours. 4.Applied Current : Rated current. 5.Measurement at 24±4 hours after test conclusion

SOLDERING CONDITINON

- (This is for recommendation, please customer perform adjustment according to actual application)
- Recommend Reflow Soldering Profile: (solder : Sn96.5 / Ag3 / Cu0.5).



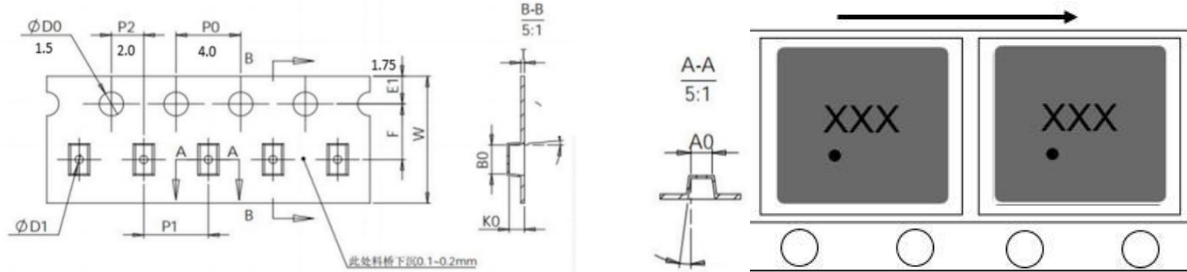
Profile Feature	Lead (Pb)-Free solder
Preheat: Temperature Min (T _{min}) Temperature Max (T _{max}) Time (T _{min} to T _{max}) (ts)	150℃ 200℃ 60 -120 seconds
Average ramp-up rate: (Ts max to Tp)	3℃ / second max.
Time maintained above : Temperature (T _L) Time (t _L)	217℃ 60-150 seconds
Peak Temperature (Tp)	260℃
Time within $^{+0}_{-5}$ ℃ of actual peak Temperature (tp) ²	10 seconds
Ramp-down Rate	6℃/second max.
Time 25℃ to Peak Temperature	8minutes max.

- Allowed Re-flow times : 2 times
- Remark : To avoid discoloration phenomena of chip on terminal electrodes, please use N2 Re-flow Furnace.

PACKAGING

- Dimension of plastic taping: (Unit: mm)

The following dimensions are related to the actual fit of the machine, for reference only.



Series	W	A0	B0	D1	F	K0	P1	T	Packing Quantity (PCS)
Tolerance	±0.30	±0.10	±0.10	±0.20	±0.10	±0.10	±0.10	±0.05	
AWLU0412	12	4.4	4.4	1.5	5.5	1.3	8	0.3	3000
AWLU0415	12	4.4	4.4	1.5	5.5	1.7	8	0.3	3000
AWLU0418	12	4.4	4.4	1.5	5.5	2.2	8	0.3	3000
AWLU0420	12	4.4	4.4	1.5	5.5	2.2	8	0.3	3000
AWLU0421	12	4.4	4.4	1.5	5.5	2.2	8	0.3	3000
AWLU0424	12	4.4	4.4	1.5	5.5	2.6	8	0.35	2500
AWLU0430	12	4.4	4.4	1.5	5.5	3.2	8	0.35	2000
AWLU0440	12	4.4	4.4	1.5	5.5	4.2	8	0.35	1500
AWLU0512	12	5.2	5.4	1.5	5.5	1.45	8	0.35	4000
AWLU0518	12	5.2	5.4	1.5	5.5	2	8	0.35	2500
AWLU0520	12	5.2	5.4	1.5	5.5	2.25	8	0.35	2500
AWLU0524	12	5.2	5.4	1.5	5.5	2.6	8	0.35	2000
AWLU0528	12	5.2	5.4	1.5	5.5	3.05	8	0.35	2000
AWLU0530	12	5.2	5.4	1.5	5.5	3.25	8	0.35	2000
AWLU0531	12	5.2	5.4	1.5	5.5	3.25	8	0.35	2000
AWLU0540	12	5.2	5.4	1.5	5.5	4.25	8	0.35	1500
AWLU0550	12	5.2	5.4	1.5	5.5	5.25	8	0.35	1000
AWLU5318	12	5.5	5.3	1.5	5.5	2	8	0.35	2500
AWLU5318	12	5.5	5.3	1.5	5.5	2.2	8	0.35	2500
AWLU5324	12	5.6	5.4	1.5	5.5	2.6	6	0.35	2500
AWLU5330	12	5.6	5.4	1.5	5.5	3.2	6	0.35	2000
AWLU5340	12	5.5	5.3	1.5	5.5	4.25	8	0.35	1500
AWLU5520	16	5.7	5.5	1.5	7.5	2.3	12	0.35	2500
AWLU5521	16	5.7	5.5	1.5	7.5	2.3	12	0.35	2500
AWLU5524	16	5.7	5.5	1.5	7.5	2.6	12	0.35	2500
AWLU5530	16	5.7	5.5	1.5	7.5	3.2	12	0.4	2000
AWLU5540	16	5.7	5.5	1.5	7.5	4.2	12	0.4	1500
AWLU5550	16	5.7	5.5	1.5	7.5	5.2	12	0.4	1500
AWLU0630	16	6.2	6.4	1.5	7.5	3.35	12	0.35	1000
AWLU0631	16	6.2	6.4	1.5	7.5	3.35	12	0.35	1000
AWLU0640	16	6.2	6.4	1.5	7.5	4.25	12	0.35	1000
AWLU0650	16	6.2	6.4	1.5	7.5	5.25	12	0.5	800

Series	W	A0	B0	D1	F	K0	P1	T	Packing Quantity (PCS)
Tolerance	±0.30	±0.10	±0.10	±0.20	±0.10	±0.10	±0.10	±0.05	
AWLU0660	16	6.2	6.4	1.5	7.5	6.25	12	0.5	600
AWLU6615	16	6.8	6.6	1.5	7.5	1.7	12	0.35	2500
AWLU6620	16	6.8	6.6	1.5	7.5	2.2	12	0.35	2000
AWLU6621	16	6.8	6.6	1.5	7.5	2.2	12	0.35	2000
AWLU6622	16	6.8	6.6	1.5	7.5	2.4	12	0.35	2000
AWLU6624	16	6.8	6.6	1.5	7.5	2.7	12	0.4	1500
AWLU6630	16	6.8	6.6	1.5	7.5	3.2	12	0.35	1000
AWLU6640	16	6.8	6.6	1.5	7.5	4.2	12	0.4	1000
AWLU6650	16	6.8	6.6	1.5	7.5	5.2	12	0.5	800
AWLU6660	16	6.8	6.6	1.5	7.5	6.2	12	0.5	600
AWLU0715	16	7.2	7.4	1.5	7.5	1.7	12	0.4	2000
AWLU0720	16	7.2	7.4	1.5	7.5	2.2	12	0.4	1500
AWLU0730	16	7.2	7.4	1.5	7.5	3.2	12	0.4	1000
AWLU0740	16	7.2	7.4	1.5	7.5	4.2	12	0.4	1000
AWLU0750	16	7.2	7.4	1.5	7.5	5.2	12	0.4	1000
AWLU0760	16	7.2	7.4	1.5	7.5	6.2	12	0.5	800
AWLU0820	24	8.2	8.4	1.5	11.5	2.2	16	0.35	1500
AWLU0822	24	8.2	8.4	1.5	11.5	2.4	16	0.35	1500
AWLU0824	24	8.2	8.4	1.5	11.5	2.6	16	0.4	1500
AWLU0830	24	8.2	8.4	1.5	11.5	3.2	16	0.4	1000
AWLU0840	24	8.2	8.4	1.5	11.5	4.2	16	0.5	1000
AWLU0850	24	8.2	8.4	1.5	11.5	5.2	16	0.5	800
AWLU0854	24	8.2	8.4	1.5	11.5	5.6	16	0.5	800
AWLU0870	24	8.2	8.4	1.5	11.5	7.2	16	0.5	500
AWLU0960	24	9.2	9.4	1.5	11.5	6.2	16	0.5	500
AWLU0980	24	9.2	9.4	1.5	11.5	8.2	16	0.5	400
AWLU1030	24	10.2	10.4	1.5	11.5	3.2	16	0.4	1000
AWLU1040	24	10.2	10.4	1.5	11.5	4.2	16	0.4	500
AWLU1050	24	10.2	10.4	1.5	11.5	5.2	16	0.4	500
AWLU1060	24	10.2	10.4	1.5	11.5	6.2	16	0.4	500
AWLU1070	24	10.5	10.5	1.5	11.5	7.3	16	0.5	500
AWLU1080	24	10.5	10.5	1.5	11.5	8.3	16	0.5	400
AWLU1230	24	12.2	12.4	1.5	11.5	3.2	16	0.5	500
AWLU1240	24	12.2	12.4	1.5	11.5	4.2	16	0.5	500
AWLU1245	24	12.2	12.4	1.5	11.5	3.25	16	0.5	500
AWLU1250	24	12.2	12.4	1.5	11.5	5.2	16	0.5	500
AWLU1260	24	12.2	12.4	1.5	11.5	6.2	16	0.5	500
AWLU1265	24	12.2	12.4	1.5	11.5	6.7	16	0.5	500

● Dimension of Reel: (Unit: mm)

Packing size "W≥12mm" using 330mm Reel

Type	A±2.0	B±2.0	C±2.0
All	330	100	13



■ PRECAUTIONS

- 1.Storage Conditions
Store products in a warehouse in compliance with the following condition:
Temperature: Inductors (product with taping) +15 to +35℃; Humidity: 25~70%RH.
If the product is not used up 24H after opening, desiccant should be placed in the package and sealed
- 2.Do not subject products to rapid changes in temperature and humidity.
- 3.Do not store the products in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas, that will causes poor solderability and corrosion of inductors.
- 4.Do not store products in bulk packaging to prevent collision among inductors which causes core chipping and wire breakage.
- 5.Store products on pallets to protect from humidity, dust, etc.
- 6.Avoid heat shock, vibration, direct sunlight, etc.
- 7.When designing the PCB, please consider the installation position of the non-magnetic shielded components to avoid failures caused by magnetic interference.
- 8.Do not place this product near magnets or objects with magnetic force.
- 9.The product will self-heat (temperature rise) due to power-on, and sufficient margin should be left in thermal design.
- 10.Mounting density
If this product is placed near heat-generating products, be sure to implement sufficient heat-dissipating measures. If this product is subjected to a significant amount of heat from other products, this could adversely affect product quality, resulting in a circuit malfunction or failure of the mounted section. Also, be sure that the product is used in a manner so that the heat that the product is subjected to from other products does not exceed the upper limit of the rated operating temperature for the product.
- 11.Since the static electricity carried by the human body will be transmitted to the ground wire, please use an anti-static wrist strap.
- 12.Grease on human hands may lead to decreased solderability. Please avoid direct contact with the terminals.
- 13.This product refers to the general standard used in audio-visual entertainment, home appliances, computers,office automation, communications, power modules, LED lighting, measuring equipment.Machine tools, industrial control panels and other general electronic equipment. And the general electronequipment should be used under the usual operation and usage methods.
- 14.Reworking with soldering iron

ITEM	Requirement
Pre-heating	150℃/approx. 1 min
Tip temperature of soldering iron	350℃ max.
Soldering time	3 s (+1 s, -0 s)
Number of reworking operations	1 times max.
It is recommended to replace the product directly, rework may cause poor appearance	
- 15.We cannot warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.
- 16.Please approve our product specifications or transact the approval sheet for product specifications before ordering.
- 17.Our specification limits the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit.

 SAFETY REMINDERS

SAFETY REMINDERS

● All products listed in this specification are developed, designed and intended for use in general electronics equipment. The products are not designed or Warranted to meet the requirements of the applications listed below, whose performance and/or quality require especially high reliability, or whose failure, malfunction or trouble might directly cause damage to society, person, or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below. Please contact us for more details if you intend to use our products in the following applications.

- ☆ 1.Aerospace/aviation equipment
- ☆ 2.Transportation equipment (cars, electric trains, ships, etc.)
- ☆ 3.Medical equipment
- ☆ 4.Power-generation control equipment
- ☆ 5.Atomic energy-related equipment
- ☆ 6.Seabed equipment
- ☆ 7.Transportation control equipment
- ☆ 8.Public information-processing equipment
- ☆ 9.Military equipment
- ☆ 10.Electric heating apparatus, burning equipment
- ☆ 11.Disaster prevention/crime prevention equipment
- ☆ 12.Safety equipment
- ☆ 13.Other applications that are not considered general-purpose applications

● When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.