

PAD LAYOUT

SIZE CODE	A	B	C	D	E	F	G
ATDL-0502	5.2±0.3	2.5±0.3	5.8±0.3	2.0(typ)	5.5	2.25	1.5

UNIT : mm

								TITLE POWER INDUCTOR	
								DWG. NO. ATDL-0502	
	RELEASE	06/06/2024	SHIRLEY	BETTY	BETTY	UNITS: M/M	SAFETY		SHEET 1 of 1
NO:	DESCRIPTION	DATE	BY	CHK	APPD	DATE 06/06/24	P/N:		
REVISIONS								DRAW Shirley	

MODEL CODE	Inductance (μ H)	DC Resistance ($m\Omega$) max	SRF (MHz) min	Isat (A) max	IDC (A) max
ATDL-0502-1R0	1.0	25	70	4.9	4.2
ATDL-0502-1R2	1.2	28	65	4.1	4.1
ATDL-0502-1R5	1.5	30	55	4.05	4.0
ATDL-0502-1R8	1.8	35	50	4.0	3.95
ATDL-0502-2R2	2.2	40	45	3.0	3.9
ATDL-0502-2R7	2.7	45	45	3.35	3.85
ATDL-0502-3R3	3.3	50	40	3.2	3.8
ATDL-0502-3R9	3.9	60	35	2.75	3.3
ATDL-0502-4R7	4.7	80	30	2.45	3.1
ATDL-0502-5R6	5.6	85	25	2.3	3.0
ATDL-0502-6R8	6.8	90	25	2.1	3.0
ATDL-0502-8R2	8.2	105	20	1.8	2.7
ATDL-0502-100	10	140	20	1.75	2.3
ATDL-0502-120	12	150	15	1.5	2.0
ATDL-0502-150	15	160	15	1.4	1.9
ATDL-0502-180	18	220	13	1.3	1.5
ATDL-0502-220	22	250	13	1.25	1.4
ATDL-0502-270	27	280	10	1.0	1.35
ATDL-0502-330	33	330	7	0.965	1.35
ATDL-0502-390	39	430	7	0.9	1.2
ATDL-0502-470	47	500	7	0.76	1.1
ATDL-0502-560	56	600	7	0.75	1.0
ATDL-0502-680	68	700	7	0.74	0.95
ATDL-0502-820	82	850	5	0.63	0.80
ATDL-0502-101	100	1150	5	0.55	0.75
ATDL-0502-121	120	1400	5	0.54	0.66
ATDL-0502-151	150	1500	2.5	0.46	0.6
ATDL-0502-181	180	1700	2.5	0.45	0.58
ATDL-0502-221	220	2500	2.5	0.39	0.56
ATDL-0502-271	270	3000	2.5	0.35	0.45
ATDL-0502-331	330	3500	2.5	0.33	0.39
ATDL-0502-391	390	4500	1	0.29	0.36



TAPE & REEL : 1500PCS/REEL

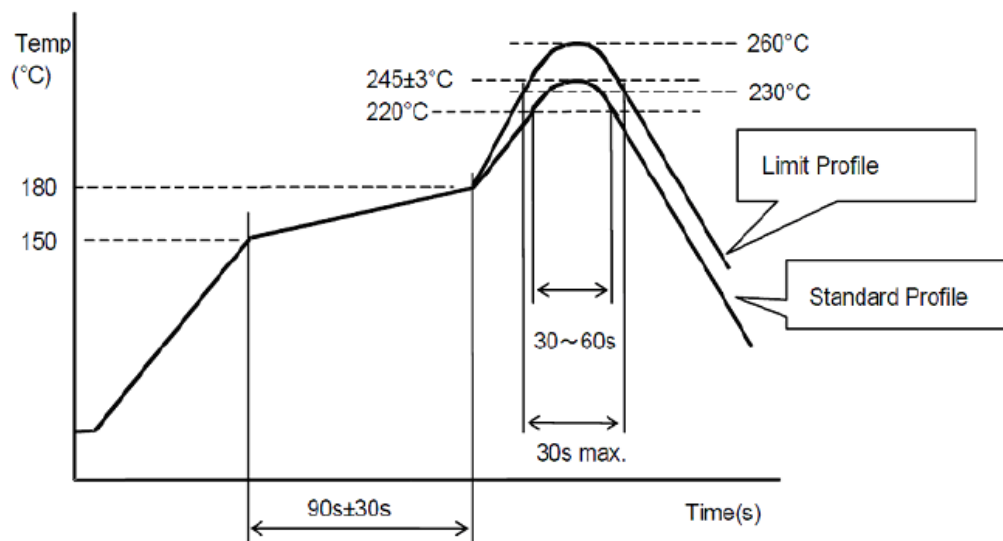
INSIDE BOX : 5 REELS
1500PCS/5REELS
BOXES : 長340, 寬94, 高343mm

*10 REELS
2 INSIDE BOXES

- (1)數量 QUANTITY : 1500PCS / CARTON
(2)一捲 REEL, BOXES 盒子 : 1500 PCS *5REEL (INNER*2 BOXES)
(3)長.寬.高.尺寸 DIMENSIONS OF CARTON (mm) : 376(L)*374(W)*198(H)
(4)重量 WEIGHT : NW : 7.5(Kg)
GW : 8.0(Kg)

						AOEM.		TITLE	PACKING
								DWG. NO.	ATDL-0502
A	RELEASE	06/07/2024	SHIRLEY	BETTY	BETTY	UNITS:	M/M	SAFETY	SHEET 1 of 1
NO:	DESCRIPTION	BY	BY	CHK	APPD	DATE	06/07/2024	P/N:	DRAW
REVISIONS									Shirley

Recommended Reflow Soldering Profile :



	Standard Profile	Limit Profile
Pre-heating	150~180°C 、 90s±30s	
Heating	above 220°C、 30s~60s	above 240°C、 30s max.
Peak temperature	245±3°C	260°C、 10s
Cycle of reflow	2 times	2 times

3-1 Flux, Solder

- Use rosin-based flux
- Don't use high acidic flux with halide content exceeding 0.2 %(wt.%) (chlorine conversion value).
- Use lead-free solder, use Sn-0.3%Ag-0.5%Cu solder
- Standard thickness of solder paste: 0.12~0.15mm

3-2 Reworking with soldering iron The following conditions must be strictly followed when using a soldering iron.

Pre – heating	150°C, 1 minute
Tip temperature	350°C max.
Soldering iron output	30w max.
End of soldering iron	φ 3mm max.
Soldering time	3 seconds max.

Note :

- This product is designed for solder mounting devices. Please consult us in advance for applying other mounting method such as conductive adhesive.
- Do not directly touch the products with the tip of the soldering iron in order to prevent the crack on the products due to the thermal shock.
- Insufficient pre-heating may cause cracks on the ferrite, resulting in the deterioration of product quality.