ARLITECH ELECTRONIC CORP.
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SMD POWER INDUCTORS / ATPI Series

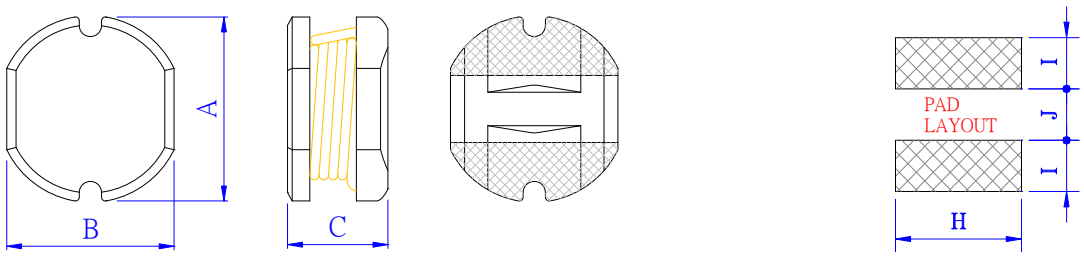
● Features

1. Excellent solderability and high heat resistance
2. Excellent terminal strength construction.
3. Packed in embossed carrier tape and can be used by automatic mounting machine.

● Applications

Power supply for VCR,OA equipment ,LCD television set, notebook, DC to DC converters, DC to AC inverters etc.

● Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ATPI0302	3.5 ± 0.3	3.0 ± 0.3	2.1 ± 0.3	3.5	1.5	1.0
ATPI0403	4.5 ± 0.3	4.0 ± 0.3	3.2 ± 0.3	4.5	1.8	1.5
ATPI0504	5.8 ± 0.3	5.2 ± 0.3	4.5 ± 0.4	5.5	2.2	1.7
ATPI0703	7.8 ± 0.3	7.0 ± 0.3	3.5 ± 0.5	7.5	3.0	2.0
ATPI0705	7.8 ± 0.3	7.0 ± 0.3	5.0 ± 0.5	7.5	3.0	2.0
ATPI1005	10.0 ± 0.4	9.0 ± 0.4	5.4 ± 0.4	9.5	3.8	2.5

■ PRODUCT IDENTIFICATION

A T P I 0 4 0 3 △ △ △ △ △ 1 0 0 M T △

① Product: ATPI

② Dimension: 0302, 0403, 0504, 0703/0705, 1005

③ Type: △△△: Type Code

④ Inductance(uH): 2R2 = 2.2, 100 = 10, 220 = 22

⑤ Tolerance: K = ±10%, M = ±20%

⑥ Package: T = Taping reel, B = Bulk

⑦ Special product: "A~"Z"

◆ ATPI0302 Series Specification：

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI03021R5□T	1.5	Y	100	60	2.00
ATPI03022R2□T	2.2	Y	100	90	1.60
ATPI03023R3□T	3.3	Y	100	100	1.50
ATPI03024R7□T	4.7	Y	100	200	1.40
ATPI03026R8□T	6.8	K,M	100	300	1.00
ATPI03028R2□T	8.2	K,M	100	320	1.00
ATPI0302100□T	10	K,M	100	350	1.00
ATPI0302120□T	12	K,M	100	400	0.90
ATPI0302150□T	15	K,M	100	600	0.60
ATPI0302180□T	18	K,M	100	700	0.60
ATPI0302220□T	22	K,M	100	1000	0.50
ATPI0302270□T	27	K,M	100	1100	0.45
ATPI0302330□T	33	K,M	100	1300	0.40
ATPI0302390□T	39	K,M	100	1500	0.35
ATPI0302470□T	47	K,M	100	2000	0.35
ATPI0302680□T	68	K,M	100	2200	0.30
ATPI0302820□T	82	K,M	100	2800	0.25
ATPI0302101□T	100	K,M	100	3200	0.20
ATPI0302121□T	120	K,M	100	4000	0.18
ATPI0302151□T	150	K,M	100	4300	0.15
ATPI0302301□T	300	K,M	100	7000	0.10
ATPI0302331□T	330	K,M	100	7000	0.10

NOTE：

* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

* □ Tolerance K：±10%，M：±20%，Y：±30%

*Isat:For Inductance drop 10% from its value without current.

◆ ATPI0403 Series Specification：

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI04031R0□T	1.0	Y	100	49	2.56
ATPI04031R4□T	1.4	Y	100	57	2.52
ATPI04031R8□T	1.8	Y	100	64	1.95
ATPI04032R2□T	2.2	Y	100	72	1.75
ATPI04032R7□T	2.7	Y	100	79	1.58
ATPI04033R3□T	3.3	Y	100	87	1.44
ATPI04033R9□T	3.9	Y	100	94	1.33
ATPI04034R7□T	4.7	Y	100	109	1.15
ATPI04035R6□T	5.6	K,M	100	126	0.99
ATPI04036R8□T	6.8	K,M	100	132	0.95
ATPI04038R2□T	8.2	K,M	100	147	0.84
ATPI0403100□T	10	K,M	100	182	1.04
ATPI0403120□T	12	K,M	100	210	0.97
ATPI0403150□T	15	K,M	100	235	0.85
ATPI0403180□T	18	K,M	100	338	0.74
ATPI0403220□T	22	K,M	100	378	0.68
ATPI0403270□T	27	K,M	100	522	0.62
ATPI0403330□T	33	K,M	100	540	0.56
ATPI0403390□T	39	K,M	100	587	0.52
ATPI0403470□T	47	K,M	100	844	0.44
ATPI0403560□T	56	K,M	100	937	0.42
ATPI0403680□T	68	K,M	100	1117	0.37

NOTE：

* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

* □ Tolerance K：±10%，M：±20%，Y：±30%

*Isat:For Inductance drop 10% from its value without current.

◆ ATPI0504 Series Specification：

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI0504100□T	10	K,M	100	100	1.44
ATPI0504120□T	12	K,M	100	120	1.40
ATPI0504150□T	15	K,M	100	140	1.30
ATPI0504180□T	18	K,M	100	150	1.23
ATPI0504220□T	22	K,M	100	180	1.11
ATPI0504270□T	27	K,M	100	200	0.97
ATPI0504330□T	33	K,M	100	230	0.88
ATPI0504390□T	39	K,M	100	320	0.80
ATPI0504470□T	47	K,M	100	370	0.72
ATPI0504560□T	56	K,M	100	420	0.68
ATPI0504680□T	68	K,M	100	460	0.61
ATPI0504820□T	82	K,M	100	600	0.58
ATPI0504101□T	100	K,M	100	700	0.52
ATPI0504121□T	120	K,M	100	930	0.48
ATPI0504151□T	150	K,M	100	1100	0.40
ATPI0504181□T	180	K,M	100	1380	0.38
ATPI0504221□T	220	K,M	100	1570	0.35

NOTE：

* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

* □ Tolerance K：±10%，M：±20%

*Isat:For Inductance drop 10% from its value without current.

◆ ATPI0703 Series Specification：

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI0703100□T	10	K,M	100	81	1.44
ATPI0703120□T	12	K,M	100	90	1.39
ATPI0703150□T	15	K,M	100	104	1.24
ATPI0703180□T	18	K,M	100	111	1.12
ATPI0703220□T	22	K,M	100	129	1.07
ATPI0703270□T	27	K,M	100	153	0.94
ATPI0703330□T	33	K,M	100	170	0.85
ATPI0703390□T	39	K,M	100	217	0.74
ATPI0703470□T	47	K,M	100	252	0.68
ATPI0703560□T	56	K,M	100	282	0.64
ATPI0703680□T	68	K,M	100	332	0.59
ATPI0703820□T	82	K,M	100	406	0.54
ATPI0703101□T	100	K,M	100	481	0.51
ATPI0703121□T	120	K,M	100	536	0.49
ATPI0703151□T	150	K,M	100	755	0.40
ATPI0703181□T	180	K,M	100	1022	0.36
ATPI0703221□T	220	K,M	100	1200	0.31
ATPI0703271□T	270	K,M	100	1306	0.29
ATPI0703331□T	330	K,M	100	1495	0.28

NOTE：

* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

* □ Tolerance K：±10%，M：±20%

*Isat:For Inductance drop 10% from its value without current.

◆ ATPI0705 Series Specification：

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI0705100□T	10	K,M	100	70	2.30
ATPI0705120□T	12	K,M	100	80	2.00
ATPI0705150□T	15	K,M	100	90	1.80
ATPI0705180□T	18	K,M	100	100	1.60
ATPI0705220□T	22	K,M	100	110	1.50
ATPI0705270□T	27	K,M	100	120	1.30
ATPI0705330□T	33	K,M	100	130	1.20
ATPI0705390□T	39	K,M	100	160	1.10
ATPI0705470□T	47	K,M	100	180	1.10
ATPI0705560□T	56	K,M	100	240	0.94
ATPI0705680□T	68	K,M	100	280	0.85
ATPI0705820□T	82	K,M	100	370	0.78
ATPI0705101□T	100	K,M	100	430	0.72
ATPI0705121□T	120	K,M	100	470	0.66
ATPI0705151□T	150	K,M	100	640	0.58
ATPI0705181□T	180	K,M	100	710	0.51
ATPI0705221□T	220	K,M	100	960	0.49
ATPI0705271□T	270	K,M	100	1110	0.42
ATPI0705331□T	330	K,M	100	1260	0.40
ATPI0705391□T	390	K,M	100	1770	0.36
ATPI0705471□T	470	K,M	100	1960	0.34

NOTE：

* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

* □ Tolerance K：±10%，M：±20%

*Isat:For Inductance drop 10% from its value without current.

◆ ATPI1005 Series Specification：

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI1005100□T	10	K,M	100	60	2.60
ATPI1005120□T	12	K,M	100	70	2.45
ATPI1005150□T	15	K,M	100	80	2.27
ATPI1005180□T	18	K,M	100	90	2.15
ATPI1005220□T	22	K,M	100	100	1.95
ATPI1005270□T	27	K,M	100	110	1.76
ATPI1005330□T	33	K,M	100	120	1.50
ATPI1005390□T	39	K,M	100	140	1.37
ATPI1005470□T	47	K,M	100	170	1.28
ATPI1005560□T	56	K,M	100	190	1.17
ATPI1005680□T	68	K,M	100	220	1.11
ATPI1005820□T	82	K,M	100	250	1.00
ATPI1005101□T	100	K,M	100	350	0.97
ATPI1005121□T	120	K,M	100	400	0.89
ATPI1005151□T	150	K,M	100	470	0.78
ATPI1005181□T	180	K,M	100	630	0.72
ATPI1005221□T	220	K,M	100	730	0.66
ATPI1005271□T	270	K,M	100	970	0.57
ATPI1005331□T	330	K,M	100	1150	0.52
ATPI1005391□T	390	K,M	100	1300	0.48
ATPI1005471□T	470	K,M	100	1480	0.42
ATPI1005561□T	560	K,M	100	1900	0.33
ATPI1005681□T	680	K,M	100	2250	0.28
ATPI1005821□T	820	K,M	100	2550	0.24

NOTE：

* The operating temperature range is -40℃ to +105℃(Including self-temperature rise)

* □ Tolerance K：±10%，M：±20%

*Isat:For Inductance drop 10% from its value without current.