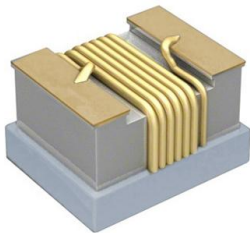


AISM-1812-391K-T Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	AISM-1812-391K-T-DG
Manufacturer	Abracon LLC
Manufacturer Product Number	AISM-1812-391K-T
Description	FIXED IND 390UH 80MA 18 OHM SMD
Detailed Description	390 μ H Unshielded Drum Core, Wirewound Inductor 80 mA 18Ohm Max 1812 (4532 Metric)



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

AISM-1812-391K-T

Series:

AISM-1812

Type:

Drum Core, Wirewound

Inductance:390 μ H**Current Rating (Amps):**

80 mA

Shielding:

Unshielded

Q @ Freq:

40 @ 796kHz

Ratings:

-

Inductance Frequency - Test:

796 kHz

Package / Case:

1812 (4532 Metric)

Size / Dimension:

0.177" L x 0.126" W (4.50mm x 3.20mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Material - Core:

Ferrite

Tolerance: \pm 10%**Current - Saturation (Isat):**

-

DC Resistance (DCR):

180hm Max

Frequency - Self Resonant:

3MHz

Operating Temperature:

-40°C ~ 85°C

Mounting Type:

Surface Mount

Supplier Device Package:

1812

Height - Seated (Max):

0.110" (2.80mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

SMD Molded Wound Chip Inductor



AISM-1812 Series

Request Samples



Check Inventory



4.8 x 3.5 x 3.5mm
RoHS/RoHS II Compliant
MSL Level = 2

Features

- Low DCR
- Best suited for power supply lines

Applications

- VCRs & Video Cameras
- Automobile Audio Systems
- Computer products & Peripherals

Electrical Specifications

Part No. ASPI-1812-Inductance Code	L(μH)	Tolerance	Q	Test Freq.	SRF(MHz)	DCR(Ω)	Idc(mA)
		(%)	(min)	(MHz)	(min)	(max)	(max)
AISM-1812-R10	0.10	M	35	25.2	300	0.20	800
AISM-1812-R12	0.12	M	35	25.2	280	0.20	770
AISM-1812-R15	0.15	M	35	25.2	250	0.20	730
AISM-1812-R18	0.18	M	35	25.2	220	0.24	700
AISM-1812-R22	0.22	M	40	25.2	200	0.30	665
AISM-1812-R27	0.27	M	40	25.2	180	0.30	635
AISM-1812-R33	0.33	M	40	25.2	165	0.30	605
AISM-1812-R39	0.39	M	40	25.2	150	0.30	575
AISM-1812-R47	0.47	M	40	25.2	145	0.32	545
AISM-1812-R56	0.56	M	40	25.2	140	0.40	520
AISM-1812-R68	0.68	M	40	25.2	135	0.40	500
AISM-1812-R82	0.82	M	40	25.2	130	0.50	475
AISM-1812-1R0	1.0	K	50	7.96	100	0.50	450
AISM-1812-1R2	1.2	K	50	7.96	80	0.60	430
AISM-1812-1R5	1.5	K	50	7.96	70	0.60	410
AISM-1812-1R8	1.8	K	50	7.96	60	0.70	390
AISM-1812-2R2	2.2	K	50	7.96	55	0.70	380
AISM-1812-2R7	2.7	K	50	7.96	50	0.80	370
AISM-1812-3R3	3.3	K	50	7.96	45	0.80	355
AISM-1812-3R9	3.9	K	50	7.96	40	0.90	330
AISM-1812-4R7	4.7	K	50	7.96	35	1.0	315
AISM-1812-5R6	5.6	K	50	7.96	33	1.1	300
AISM-1812-6R8	6.8	K	50	7.96	27	1.2	285
AISM-1812-8R2	8.2	K	50	7.96	25	1.4	270
AISM-1812-100	10	K	50	2.52	20	1.6	250
AISM-1812-120	12	K	50	2.52	18	2.0	225
AISM-1812-150	15	K	50	2.52	17	2.5	200
AISM-1812-180	18	K	50	2.52	15	2.8	190
AISM-1812-220	22	K	50	2.52	13	3.2	180
AISM-1812-270	27	K	50	2.52	12	3.6	170
AISM-1812-330	33	K	50	2.52	11	4.0	160
AISM-1812-390	39	K	50	2.52	10	4.5	150
AISM-1812-470	47	K	50	2.52	10	5.0	140
AISM-1812-560	56	K	50	2.52	9.0	5.5	135



5101 Hidden Creek Ln Spicewood TX 78669
 Phone: 512-371-6159 | Fax: 512-351-8858
 For terms and conditions of sales, please visit:
www.abracon.com

REVISION: H 02-18-22

ABRACON IS
 ISO9001-2015
 CERTIFIED

SMD Molded Wound Chip Inductor



AIMS-1812 Series

Request Samples



Check Inventory



4.8 x 3.5 x 3.5mm
RoHS/RoHS II Compliant
MSL Level = 2

Electrical Specifications (Cont'd)

Part No. ASPI-1812-Inductance Code	L(μH)	Tolerance	Q	Test Freq.	SRF(MHz)	DCR(Ω)	Idc(mA)
		(%)	(min)	(MHz)	(min)	(max)	(max)
AIMS-1812-680	68	K	50	2.52	9.0	6.0	130
AIMS-1812-820	82	K	50	2.52	8.0	7.0	120
AIMS-1812-101	100	K	40	0.796	8.0	8.0	110
AIMS-1812-121	120	K	40	0.796	6.0	8.0	110
AIMS-1812-151	150	K	40	0.796	5.0	9.0	105
AIMS-1812-181	180	K	40	0.796	5.5	9.5	102
AIMS-1812-221	220	K	40	0.796	5.0	10	100
AIMS-1812-271	270	K	40	0.796	4.5	12	92
AIMS-1812-331	330	K	40	0.796	4.0	14	85
AIMS-1812-391	390	K	40	0.796	3.5	18	80
AIMS-1812-471	470	K	40	0.796	3.5	26	62
AIMS-1812-561	560	K	30	0.796	3.0	30	50
AIMS-1812-681	680	K	30	0.796	3.0	30	50
AIMS-1812-821	820	K	30	0.796	2.5	35	30
AIMS-1812-102	1000	K	20	0.252	2.5	40	30

Test Conditions: Isat: $\Delta L/L$ (initial) $\geq -10\%$

Operating Temperature: -40°C to +85°C

Storage Temperature (in packaging): +22°C to +28°C, Humidity < 80%RH

AIMS-1812 is RoHS Compliant and Pb Free.

MSL level: 2 (This product is packed with dry packaging)

SMD Molded Wound Chip Inductor



AIMS-1812 Series

Request Samples



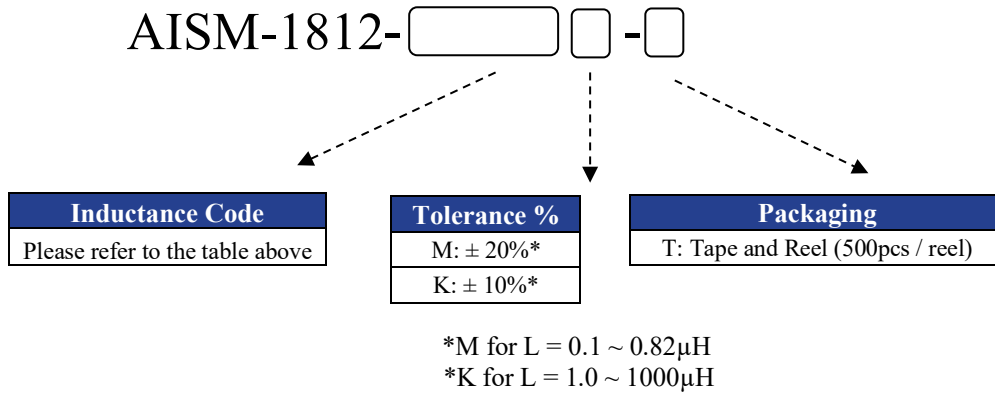
Check Inventory



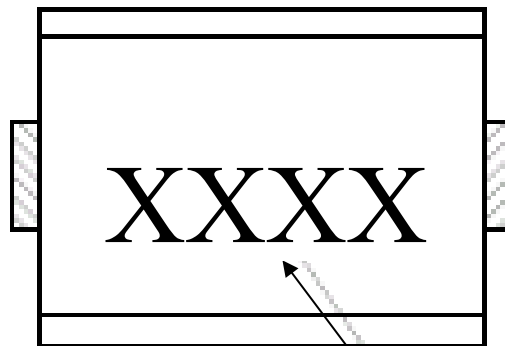
4.8 x 3.5 x 3.5mm
RoHS/RoHS II Compliant
 MSL Level = 2

Part Identification

2.0 Part Number Identification



Marking



Inductance Code and Tolerance
 e.g. 8R2K

Marking Method = Ink Marking

SMD Molded Wound Chip Inductor



AIMS-1812 Series

Request Samples

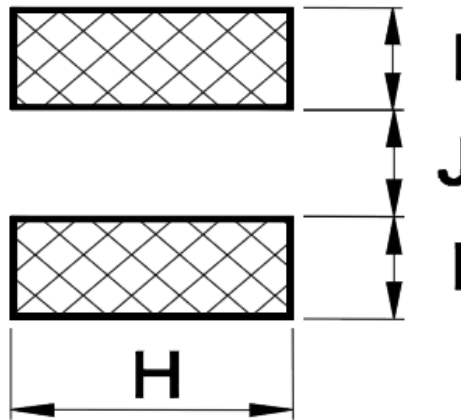
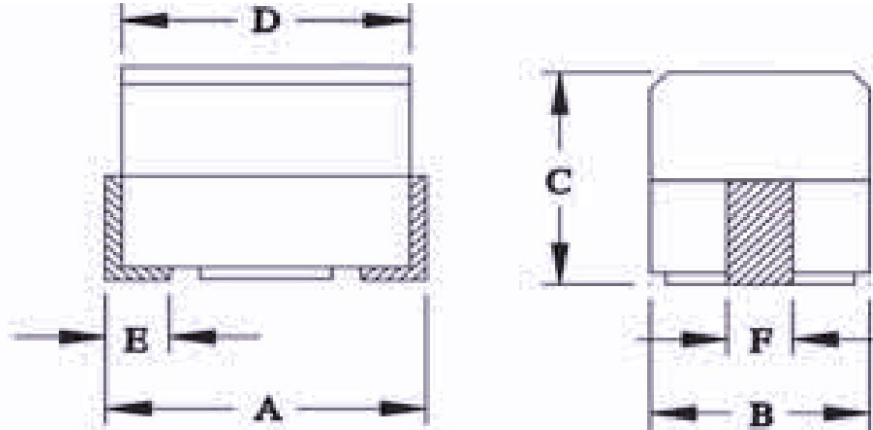


Check Inventory



4.8 x 3.5 x 3.5mm
RoHS/RoHS II Compliant
MSL Level = 2

Mechanical Specifications



Recommended Land Pattern

A max.	B max.	C max.	D ref.	E ref.	F ref.	I	J	H
4.8	3.5	3.5	4.2±0.2	1.1	1.2 or 1.8	1.50	3.00	2.80

SMD Molded Wound Chip Inductor



AISM-1812 Series

Request Samples

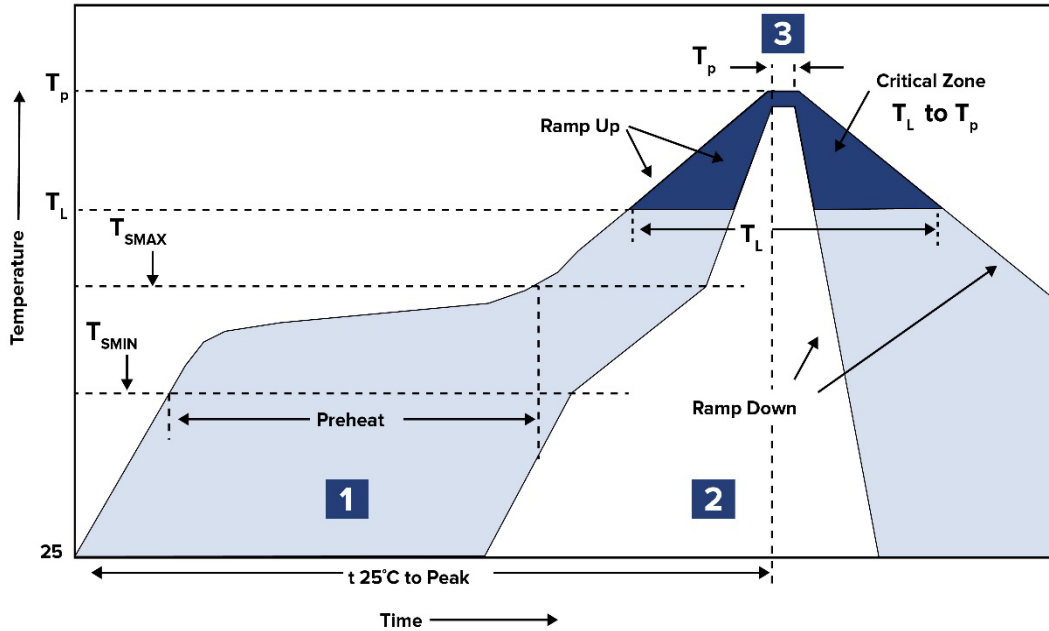


Check Inventory



4.8 x 3.5 x 3.5mm
RoHS/RoHS II Compliant
MSL Level = 2

Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 120°C ~ 180°C	50~ 150 sec.
2	Reflow	T_L 217°C	90 sec.
3	Peak heat	T_P 260°C (+0/-5°C)	10 ~30 sec. MAX

*Time from 25°C to peak should not exceed 6 min

SMD Molded Wound Chip Inductor



AISM-1812 Series

Request Samples



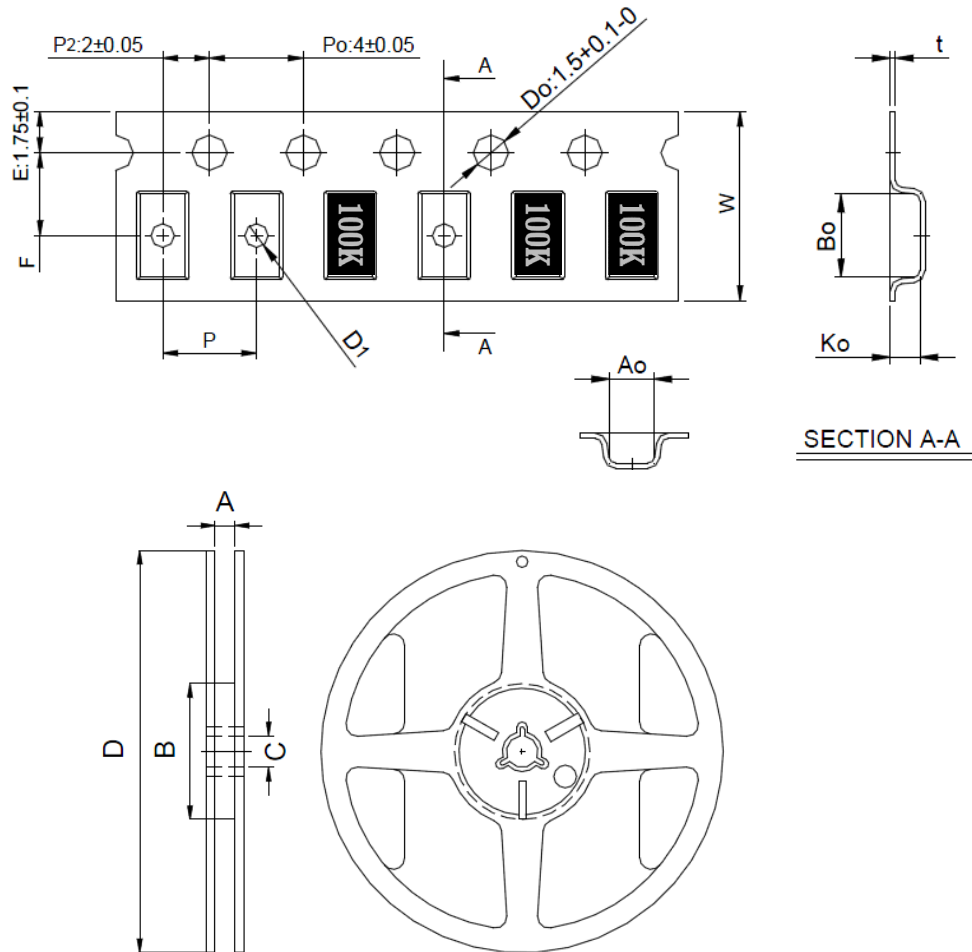
Check Inventory



4.8 x 3.5 x 3.5mm
RoHS/RoHS II Compliant
MSL Level = 2

Packing

T: 500pcs / reel



A0	B0	K0	P	F	W	t	A	B	C	D
3.5 ± 0.1	4.9 ± 0.1	3.4 ± 0.1	8 ± 0.1	5.5 ± 0.1	12 ± 0.2	0.3 ± 0.05	13.5 ± 0.5	60 ± 2.0	13.5 ± 0.5	178 ± 2.0

Dimension: mm

ATTENTION: Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



5101 Hidden Creek Ln Spicewood TX 78669
 Phone: 512-371-6159 | Fax: 512-351-8858
 For terms and conditions of sales, please visit:
www.abracon.com

REVISION: H 02-18-22

ABRACON IS
 ISO9001-2015
 CERTIFIED

OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we stricly control the quality of products and services. Welcome your RFQ to

Email: Info@DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.