

ECN/PCN No.: M1190

For Manufacturer			
Product Description: Shielded Power Inductor	Abracon Part Number / Part Series: ASPI-0428S	<input type="checkbox"/> Documentation only <input checked="" type="checkbox"/> ECN <input type="checkbox"/> EOL	<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number(s)
Affected Revision: D	New Revision: E	Application: <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety	

Prior to Change:

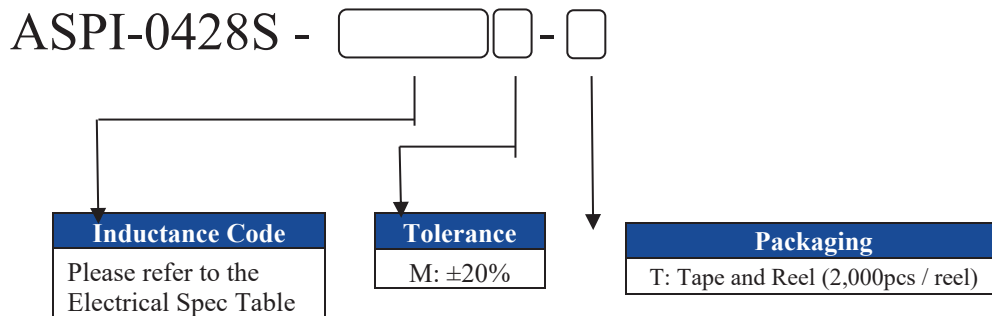
1.0 Key Electrical Specifications

Part#	Inductance (μ H)	Tol. (%)	RDC max. (Ω)	IDC max. (A)
ASPI-0428S-1R2	1.2	M	0.0236	2.56
ASPI-0428S-1R8	1.8	M	0.0275	2.20
ASPI-0428S-2R2	2.2	M	0.0313	2.04
ASPI-0428S-2R7	2.7	M	0.0433	1.60
ASPI-0428S-3R3	3.3	M	0.0492	1.57
ASPI-0428S-3R9	3.9	M	0.0648	1.44
ASPI-0428S-4R7	4.7	M	0.0720	1.32
ASPI-0428S-5R6	5.6	M	0.1009	1.17
ASPI-0428S-6R8	6.8	M	0.1089	1.12
ASPI-0428S-8R2	8.2	M	0.1175	1.04
ASPI-0428S-100	10	M	0.1283	1.00
ASPI-0428S-120	12	M	0.1316	0.84
ASPI-0428S-150	15	M	0.1490	0.76
ASPI-0428S-180	18	M	0.1660	0.72
ASPI-0428S-220	22	M	0.2350	0.70
ASPI-0428S-270	27	M	0.2610	0.58
ASPI-0428S-330	33	M	0.3780	0.56
ASPI-0428S-390	39	M	0.3837	0.50
ASPI-0428S-470	47	M	0.5870	0.48
ASPI-0428S-560	56	M	0.6245	0.41
ASPI-0428S-680	68	M	0.6990	0.35
ASPI-0428S-820	82	M	0.9148	0.32
ASPI-0428S-101	100	M	1.0200	0.29
ASPI-0428S-121	120	M	1.2700	0.27
ASPI-0428S-151	150	M	1.3500	0.24
ASPI-0428S-181	180	M	1.5400	0.22

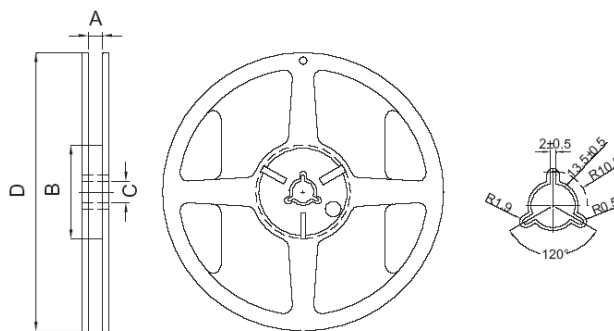
1.1 Test Conditions

Test Frequency is 100KHz. DCR & IDC listed are all Max. value.
 Tolerance: M=±20%, M tolerance is standard

2.0 Part Number Identification



3.0 Packing T: 500 pcs / reel



Part#	A	B	C	D
ASPI-0428S-xxx	12.5±0.5	100±0.5	13.2±0.3	330±1.0

After Change:

4.0 Key Electrical Specifications

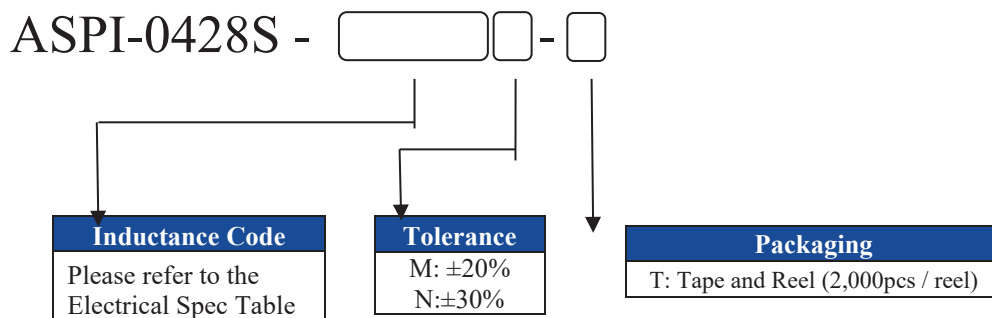
Part#	Inductance (μ H)	Testing Condition	Tol. (%)	RDC max. (Ω)	IDC max. (A)
ASPI-0428S-1R0	1.0	100KHz/0.25V	N	0.026	2.70
ASPI-0428S-1R2	1.2	100KHz/0.1V	N	0.024	2.56
ASPI-0428S-1R8	1.8	100KHz/0.1V	N	0.028	2.20
ASPI-0428S-2R2	2.2	100KHz/0.25V	N	0.034	1.80
ASPI-0428S-2R7	2.7	100KHz/0.1V	N	0.043	1.60
ASPI-0428S-3R0	3.0	100KHz/0.25V	N	0.048	1.55
ASPI-0428S-3R3	3.3	100KHz/0.1V	N	0.049	1.57
ASPI-0428S-3R9	3.9	100KHz/0.25V	N	0.048	1.50
ASPI-0428S-4R7	4.7	100KHz/0.25V	N	0.052	1.35
ASPI-0428S-5R6	5.6	100KHz/0.25V	N	0.059	1.21
ASPI-0428S-6R8	6.8	100KHz/0.25V	N	0.088	1.15
ASPI-0428S-8R2	8.2	100KHz/0.1V	N	0.118	1.04
ASPI-0428S-100	10	1KHz/0.25V	M	0.120	1.00

ASPI-0428S-120	12	1KHz/0.25V	M	0.140	0.84
ASPI-0428S-150	15	1KHz/0.25V	M	0.156	0.75
ASPI-0428S-180	18	100KHz/0.1V	N,M	0.166	0.72
ASPI-0428S-220	22	1KHz/0.25V	M	0.247	0.70
ASPI-0428S-270	27	1KHz/0.25V	M	0.299	0.58
ASPI-0428S-330	33	1KHz/0.25V	M	0.325	0.57
ASPI-0428S-390	39	1KHz/0.25V	M	0.351	0.52
ASPI-0428S-430	43	1KHz/0.25V	M	0.377	0.51
ASPI-0428S-470	47	1KHz/0.25V	M	0.442	0.50
ASPI-0428S-560	56	1KHz/0.25V	M	0.468	0.41
ASPI-0428S-680	68	1KHz/0.25V	M	0.546	0.35
ASPI-0428S-820	82	1KHz/0.25V	M	0.780	0.32
ASPI-0428S-101	100	1KHz/0.25V	M	0.858	0.29
ASPI-0428S-121	120	1KHz/0.25V	M	1.30	0.27
ASPI-0428S-151	150	1KHz/0.25V	M	1.50	0.24
ASPI-0428S-181	180	1KHz/0.25V	M	1.60	0.22
ASPI-0428S-221	220	100KHz/0.1V	M	2.00	0.21
ASPI-0428S-271	270	1KHz/0.25V	M	2.86	0.185
ASPI-0428S-331	330	1KHz/0.25V	M	3.25	0.170
ASPI-0428S-391	390	1KHz/0.25V	M	4.55	0.155
ASPI-0428S-471	470	1KHz/0.25V	M	5.07	0.140
ASPI-0428S-561	560	1KHz/0.25V	M	5.46	0.130
ASPI-0428S-681	680	1KHz/0.25V	M	6.11	0.120

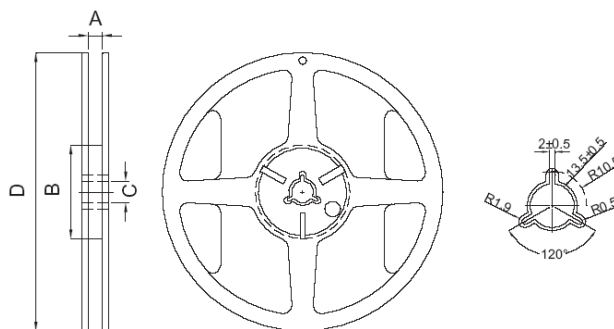
4.1 Test Conditions

- 100KHz/0.25V, 1KHz/0.25V, 100KHz/0.1V
- Tolerance: N=±30%; M=±20%, M tolerance is standard
- Rated DC Current: The current when the inductance becomes 35% lower than its initial value or the current when the temperature of coil increases to Δ40°C. The smaller one is defined as Rated DC Current. (Ta=25°C)
- DCR & IDC listed are all Max. value.

5.0 Part Number Identification



6.0 Packing
T: 2000 pcs / reel



Part#	A	B	C	D
ASPI-0428S-xxx	12.5±0.5	100±0.5	13.5±0.3	330±1.0

Cause/Reason for Change:

New additional parts are added to the series with an update on the original parts' electrical specifications and its testing conditions, and number of pcs per reel. Mechanical specifications are unchanged.

Increased inductance tolerance of the following parts:

- ASPI-0428S-1R2
- ASPI-0428S-1R8
- ASPI-0428S-2R2
- ASPI-0428S-2R7
- ASPI-0428S-3R3
- ASPI-0428S-3R9
- ASPI-0428S-4R7
- ASPI-0428S-5R6
- ASPI-0428S-6R8
- ASPI-0428S-8R2

Change Plan

Effective Date:
9/17/2020

Additional Remarks:
N/A

Change Declaration:

This update does not have an impact on form or fit. However, it should be noted tolerances of several parts (listed above) have relaxed tolerances from 20% to 30%.

Issued Date:
9/17/2020

Issued By:

Issued Department:

Approval:

Approval:

Approval:

For Abracon EOL only

Last Time Buy (if applicable):
N/A

Alternate Part Number / Part Series:
N/A

Additional Approval:
N/A

Additional Approval:
N/A

Additional Approval:
N/A

Customer Approval (If Applicable)

Qualification Status:		
<input type="checkbox"/> Approved <input type="checkbox"/> Not accepted		
<i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>		
Customer Part Number:		Customer Project:
Company Name:	Company Representative:	Representative Signature:
Customer Remarks:		