

ECN/PCN No.: M1219

For Manufacturer			
Product Description: <div style="text-align: center; color: blue;"> SMD SHIELDED POWER INDUCTOR </div>	Abracon Part Number / Part Series: <div style="text-align: center; color: blue;"> ASPI-0704S series </div>	<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: <div style="text-align: center;">H</div>	New Revision: <div style="text-align: center;">I</div>	Application: <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety	

Prior to Change:

1.0 Key Electrical Specifications

Part Number	Inductance	Test Frequency	DC Resistance	IDC	Marking
	(μ H)	(kHz)	(Ω)	(A)	
ASPI-0704S-2R2M	2.2	100	0.028	5.00	2R2
ASPI-0704S-100M	10	100	0.049	1.84	100
ASPI-0704S-120M	12	100	0.058	1.71	120
ASPI-0704S-150M	15	100	0.081	1.47	150
ASPI-0704S-180M	18	100	0.091	1.31	180
ASPI-0704S-220M	22	100	0.110	1.23	220
ASPI-0704S-270M	27	100	0.150	1.12	270
ASPI-0704S-330M	33	100	0.170	0.96	330
ASPI-0704S-390M	39	100	0.230	0.91	390
ASPI-0704S-470M	47	100	0.260	0.88	470
ASPI-0704S-560M	56	100	0.350	0.75	560
ASPI-0704S-680M	68	100	0.380	0.69	680
ASPI-0704S-820M	82	100	0.430	0.61	820
ASPI-0704S-101M	100	100	0.610	0.60	101
ASPI-0704S-121M	120	100	0.660	0.52	121
ASPI-0704S-151M	150	100	0.880	0.46	151
ASPI-0704S-181M	180	100	0.980	0.42	181
ASPI-0704S-221M	220	100	1.170	0.36	221
ASPI-0704S-271M	270	100	1.640	0.34	271
ASPI-0704S-331M	330	100	1.860	0.32	331
ASPI-0704S-391M	390	100	2.850	0.29	391
ASPI-0704S-471M	470	100	3.010	0.26	471
ASPI-0704S-561M	560	100	3.620	0.23	561
ASPI-0704S-681M	680	100	4.630	0.22	681
ASPI-0704S-821M	820	100	5.200	0.20	821
ASPI-0704S-102M	1000	100	6.000	0.18	102

1.1 Test Conditions

1. Inductance Decrease Current: The current at inductance \leq 25% drop of initial value
2. Inductance: AGILENT 4294A Precision Impedance Analyzer
3. ZENTECH 3302 Automatic Components Analyzer
4. ZENTECH 502AC Resistance Meter
5. ZENTECH 1320 BIAS CURRENT

1.2 Operating Voltage (maximum)

Voltage across inductor: 400V

1.3 Storage Temperature of component removed from packaging

-40°C to +125°C

2.0 MSL level: 2 (This product is packed with dry packaging)
After Change:
1.0 Key Electrical Specifications

Part Number	Inductance	DC Resistance	IDC	Marking
	(μ H)	(Ω)	(A)	
ASPI-0704S-1R0M	1.0	0.020	8.00	1R0
ASPI-0704S-1R5M	1.5	0.018	7.00	1R5
ASPI-0704S-2R2M	2.2	0.028	6.00	2R2
ASPI-0704S-3R3M	3.3	0.032	4.80	3R3
ASPI-0704S-3R9M	3.9	0.035	4.40	3R9
ASPI-0704S-4R7M	4.7	0.038	4.00	4R7
ASPI-0704S-5R6M	5.6	0.040	3.5	5R6
ASPI-0704S-6R8M	6.8	0.045	3.00	6R8
ASPI-0704S-100M	10	0.049	1.84	100
ASPI-0704S-120M	12	0.058	1.71	120
ASPI-0704S-150M	15	0.081	1.47	150
ASPI-0704S-180M	18	0.091	1.31	180
ASPI-0704S-220M	22	0.110	1.23	220
ASPI-0704S-270M	27	0.150	1.12	270
ASPI-0704S-330M	33	0.170	0.96	330
ASPI-0704S-390M	39	0.230	0.91	390
ASPI-0704S-470M	47	0.260	0.88	470
ASPI-0704S-560M	56	0.350	0.75	560
ASPI-0704S-680M	68	0.380	0.69	680
ASPI-0704S-820M	82	0.430	0.61	820
ASPI-0704S-101M	100	0.610	0.60	101
ASPI-0704S-121M	120	0.660	0.52	121
ASPI-0704S-151M	150	0.880	0.46	151
ASPI-0704S-181M	180	0.980	0.42	181
ASPI-0704S-221M	220	1.170	0.36	221
ASPI-0704S-271M	270	1.640	0.34	271
ASPI-0704S-331M	330	1.860	0.32	331
ASPI-0704S-391M	390	2.850	0.29	391
ASPI-0704S-471M	470	3.010	0.26	471
ASPI-0704S-561M	560	3.620	0.23	561
ASPI-0704S-681M	680	4.630	0.22	681
ASPI-0704S-821M	820	5.200	0.20	821
ASPI-0704S-102M	1000	6.000	0.18	102

2.1 Test Conditions and Equipment

Frequency: 1KHz, 0.25V

Rated DC Current: The DC current at which the inductance becomes 25% lower than its initial value or when $\Delta t = 40^{\circ}\text{C}$, whichever is lower. ($T_a = 25^{\circ}\text{C}$)

L: HP4284A or HP4285A LCR meter

DCR: Milli-ohm meter

2.2 Storage Temperature

+15°C to +28°C

Cause/Reason for Change:

Moving the series to a new production line, 7 new devices added to the series, update to storage temperature and testing conditions.

Change Plan
Effective Date:

2/11/2021

Additional Remarks:
Change Declaration:

The change does not affect form fit or function of the series. 7 new devices added to the series, update to storage temperature and testing conditions.

Issued Date:

2/11/2021

Issued By:

Ahmed Alamin

Issued Department:

Engineering

Approval:

Syed Raza
Engineering VP

Approval:

Reuben Quintanilla
Quality Director

Approval:

Ying Huang
Purchasing Director

For Abracon EOL only
Last Time Buy (if applicable):
Alternate Part Number / Part Series:
Additional Approval:
Additional Approval:
Additional Approval:
Customer Approval (If Applicable)
Qualification Status:

Approved Not accepted

Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.

Customer Part Number:
Customer Project:
Company Name:
Company Representative:
Representative Signature:
Customer Remarks: