

ECN/PCN No.: 1368

For Manufacturer

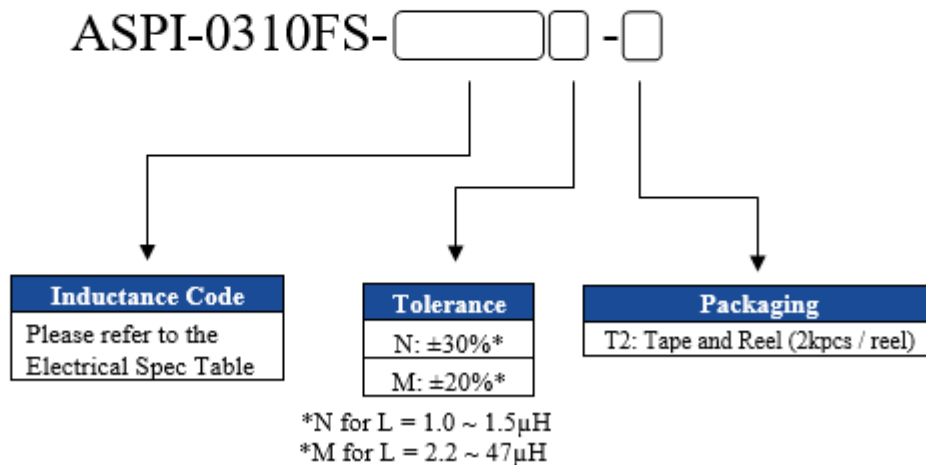
Product Description: Low Profile Shielded SMD Chip Power Inductor	Abrakon Part Number / Part Series: ASPI-0310FS Series	☐ Documentation only ☒ Series ☒ ECN ☐ Part Number(s) ☐ EOL
Affected Revision: E	New Revision: F	Application: ☐ Safety ☒ Non-Safety

Prior to Change:

1.0 Key Electrical Specifications

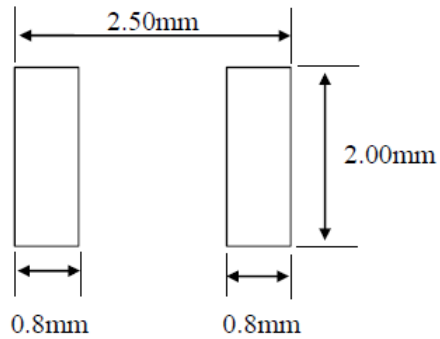
Part Number ASPI-0310FS- Inductance Code	Inductance	Inductance Tolerance	DCR	DCR Tolerance	Saturation Current	Temperature Rise Current
Units	μH	%	mΩ	%	A	A
Symbol	L	M, N	DCR		Isat	Irms
ASPI-0310FS-1R0	1.0	N	50	±25%	2.30	2.30
ASPI-0310FS-1R2	1.2	N	62	±30%	1.90	2.10
ASPI-0310FS-1R5	1.5	N	70		1.65	2.00
ASPI-0310FS-2R2	2.2	M	80		1.30	1.90
ASPI-0310FS-3R3	3.3	M	130	±20%	1.05	1.80
ASPI-0310FS-4R7	4.7	M	175		0.85	1.70
ASPI-0310FS-6R8	6.8	M	260		0.70	1.30
ASPI-0310FS-100	10.0	M	350		0.60	0.90
ASPI-0310FS-150	15.0	M	510		0.50	0.80
ASPI-0310FS-220	22.0	M	780		0.40	0.70
ASPI-0310FS-330	33.0	M	1100		0.32	0.50
ASPI-0310FS-470	47.0	M	1600		0.28	0.35

4.0 Part Number Identification



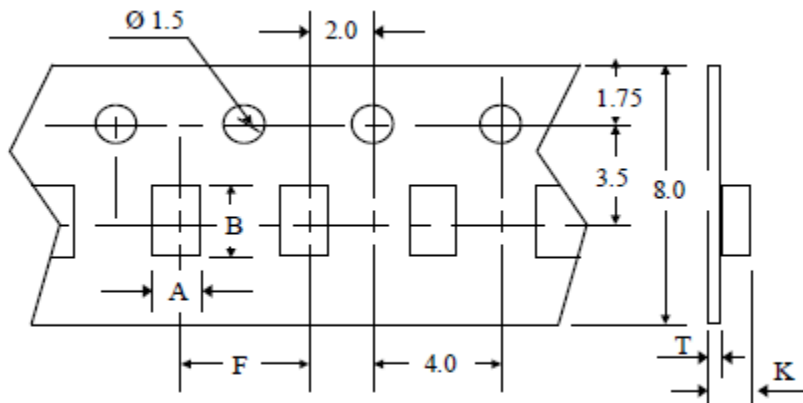
6.0

Recommended Land Pattern

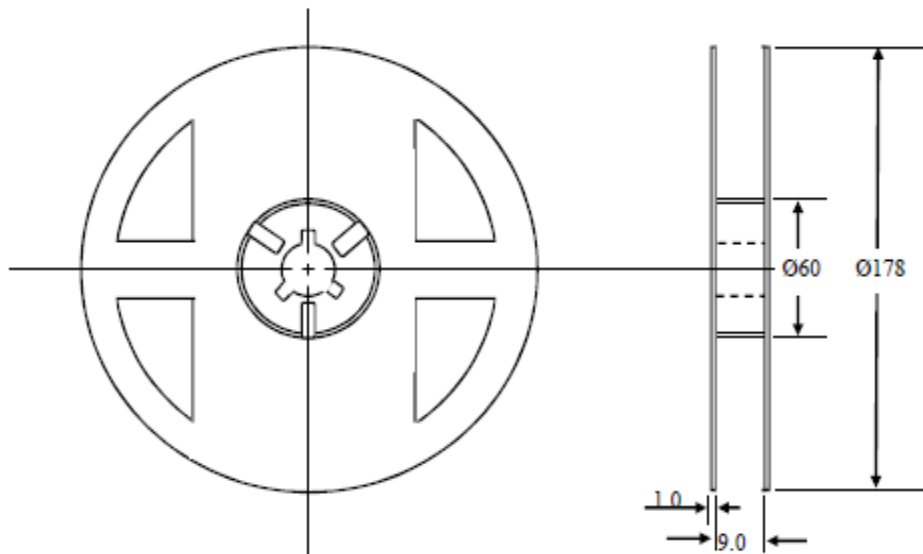


8.0 Packing

T2: 2,000pcs / reel



A	3.15
B	3.15
K	1.40
F	4
T	0.25



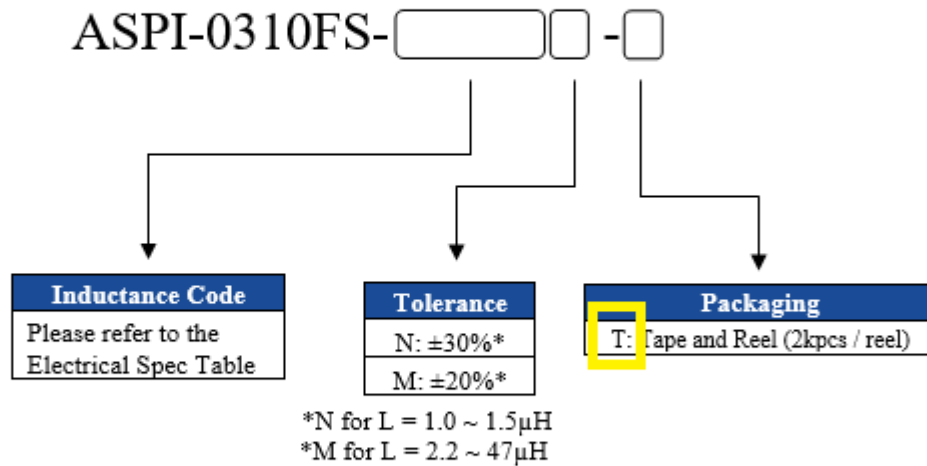
Dimension: mm

After Change:

1.0 Key Electrical Specifications

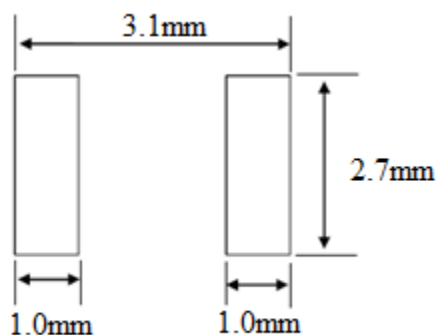
Part Number ASPI-0310FS- Inductance Code	Inductance	Inductance Tolerance	DCR	DCR Tolerance	Saturation Current	Temperature Rise Current
Units	μH	%	$\text{m}\Omega$	%	A	A
Symbol	L	M, N	DCR		I_{sat}	I_{rms}
ASPI-0310FS-1R0	1.0	N	50	$\pm 30\%$	2.30	2.30
ASPI-0310FS-1R2	1.2	N	62		1.90	2.10
ASPI-0310FS-1R5	1.5	N	70		1.65	2.00
ASPI-0310FS-2R2	2.2	M	80	$\pm 20\%$	1.45	1.90
ASPI-0310FS-3R3	3.3	M	130		1.05	1.80
ASPI-0310FS-4R7	4.7	M	175		0.85	1.70
ASPI-0310FS-6R8	6.8	M	260		0.70	1.30
ASPI-0310FS-100	10.0	M	350		0.60	0.90
ASPI-0310FS-150	15.0	M	510		0.50	0.80
ASPI-0310FS-220	22.0	M	780		0.40	0.70
ASPI-0310FS-330	33.0	M	1100		0.32	0.50
ASPI-0310FS-470	47.0	M	1600		0.28	0.35

4.0 Part Number Identification



6.0

Recommended Land Pattern

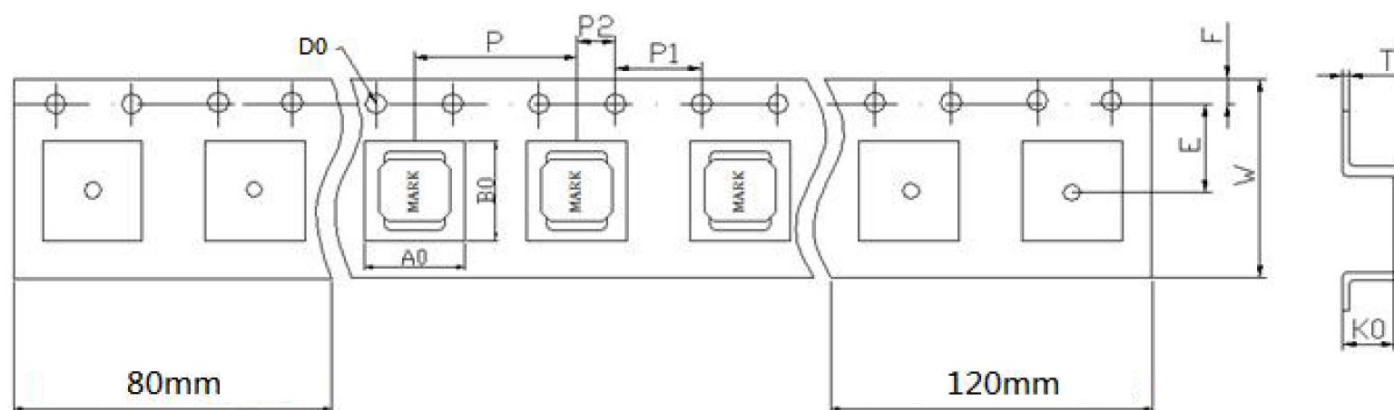


REF. dimensions

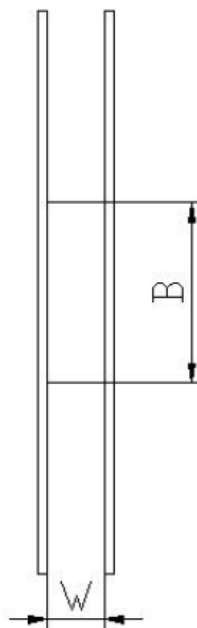
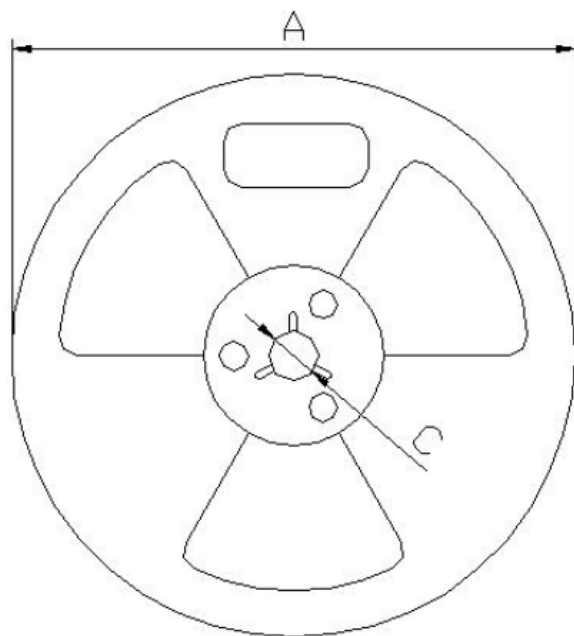
2.0

Packing

T: 2,000pcs / reel



Item	W	A0	B0	K0	P	E	F	D0	P0	P2	T
Dim.	8.00±0.3	3.2±0.1	3.2±0.1	1.32±0.1	4.0±0.1	3.5±0.1	1.75±0.1	1.50±0.1	4.00±0.1	2.00±0.1	0.30±0.05



A	180 ±0.5
B	100 ±0.5
C	13.5 ±0.5
W	8.5 ±0.5

Dimension: mm

Cause/Reason for Change:

Moving to different production line. Uncovered erroneous pad dimensions in previous datasheet. Removed the -T2 suffix and replaced with -T.

Change Plan
Effective Date:

7/18/2022

Additional Remarks:
Change Declaration:

Pad dimension correction may cause issues with existing designs. Ensure design engineer reviews pad dimensions in latest datasheet.

DCR tolerance for the 1.0uH inductor changed from 25% to 30%.

Issued Date:

7/18/2022

Issued By:

Gerald Capwell

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: