

ECN/PCN No.: M1364

For Manufacturer

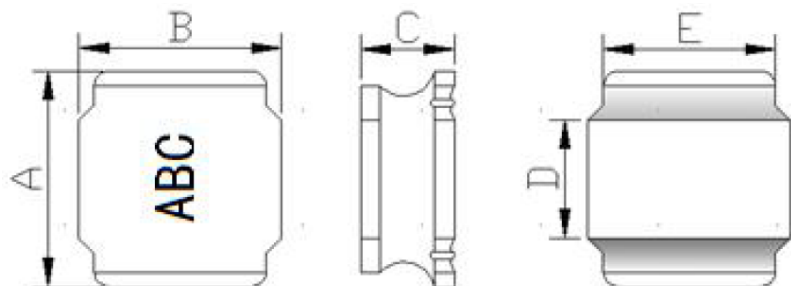
Product Description: Low Profile Shielded SMD Chip Power Inductor	Abrakon Part Number / Part Series: ASPI-0615FS Series	☐ Documentation only ☒ ECN ☐ EOL	☒ Series ☐ Part Number(s)
Affected Revision: E	New Revision: F	Application:	☐ Safety ☒ Non-Safety

Prior to Change:

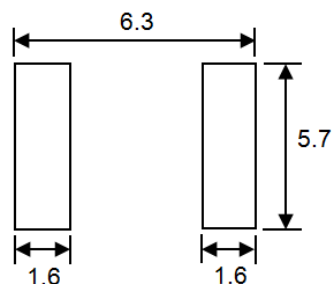
1.0 Electrical Specification

Part Number ASPI-0615FS- 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		Isat	Irms
ASPI-0615FS-R50	0.5	N	9	$\pm 30\%$	7.00	5.20
ASPI-0615FS-R80	0.8	N	12		6.00	4.10
ASPI-0615FS-1R5	1.5	N	17		4.00	3.60
ASPI-0615FS-2R2	2.2	N	24		3.50	2.90
ASPI-0615FS-3R3	3.3	M, N	30		2.80	2.80
ASPI-0615FS-4R7	4.7	M, N	43	$\pm 20\%$	2.40	2.20
ASPI-0615FS-5R6	5.6	M, N	55		2.20	2.00
ASPI-0615FS-6R8	6.8	M, N	60		2.00	1.80
ASPI-0615FS-100	10	M, N	90		1.90	1.50
ASPI-0615FS-150	15	M, N	120		1.30	1.20
ASPI-0615FS-220	22	M, N	170		1.10	1.00
ASPI-0615FS-330	33	M, N	310		0.90	0.90
ASPI-0615FS-470	47	M, N	370		0.80	0.80

6.0 Mechanical and Material



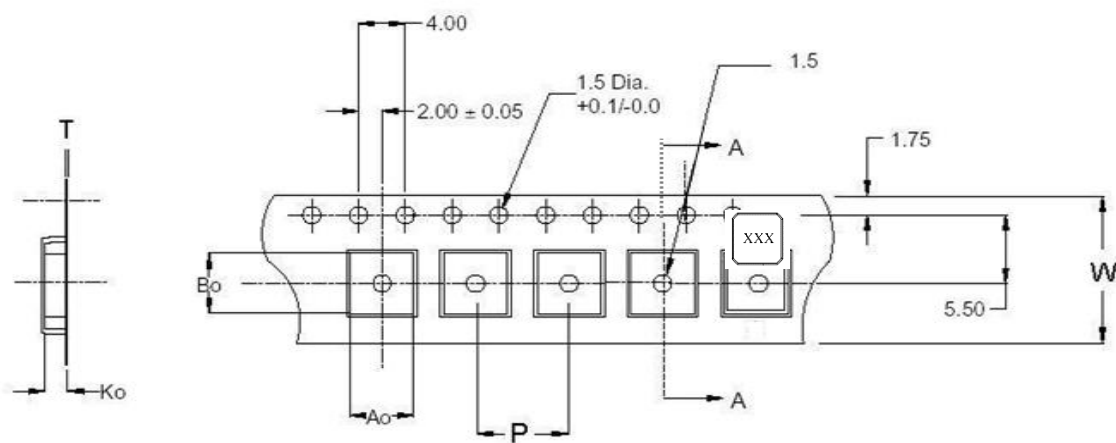
A	B	C	D Typ.
6.0 $\pm$ 0.2	6.0 $\pm$ 0.2	2.0 $\pm$ 0.2	1.50



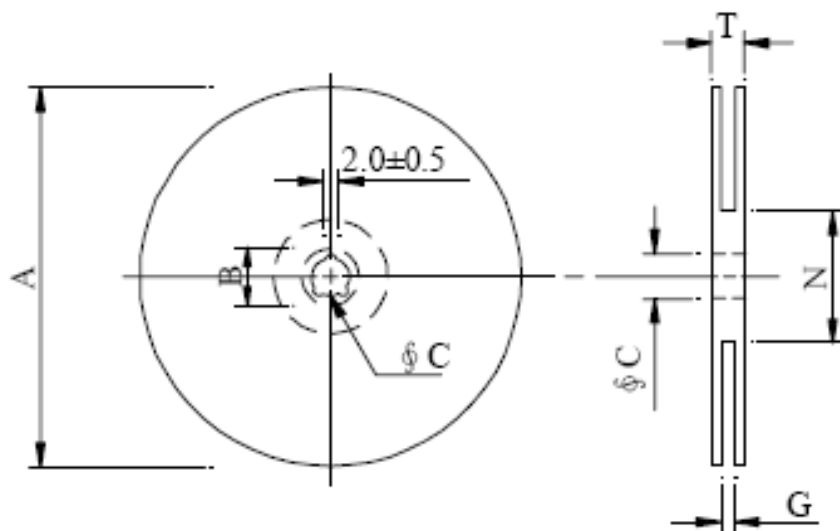
Recommended Land Pattern

8.0 Packing

T2: 2,000pcs / reel



Ao	6.35
Bo	6.20
Ko	2.40
W	16.00
P	12.00
T	0.40



A	330
B	21.0 ± 0.8
C	13.5 ± 0.5
G	16.6
N	99.5
T	21

After Change:

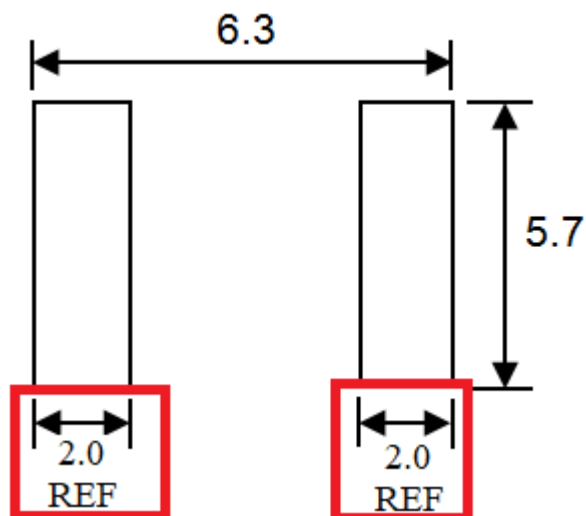
1.0 Electrical Specification

Part Number ASPI-0615FS- 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-0615FS-R50	0.5	N	9	±30%	7.00	5.20
ASPI-0615FS-R80	0.8	N	12		6.00	4.10
ASPI-0615FS-1R5	1.5	N	17		4.00	3.60
ASPI-0615FS-2R2	2.2	N	24		3.50	2.90
ASPI-0615FS-3R3	3.3	M, N	30	±20%	2.80	2.80
ASPI-0615FS-4R7	4.7	M, N	43		2.40	2.20
ASPI-0615FS-5R6	5.6	M, N	55		2.20	2.00
ASPI-0615FS-6R8	6.8	M, N	60		2.00	1.80
ASPI-0615FS-100	10	M, N	90		1.90	1.50
ASPI-0615FS-150	15	M, N	120		1.30	1.20
ASPI-0615FS-220	22	M, N	170		1.10	1.00
ASPI-0615FS-330	33	M, N	310		0.90	0.90
ASPI-0615FS-470	47	M, N	370		0.80	0.80

6.0 Mechanical and Materials

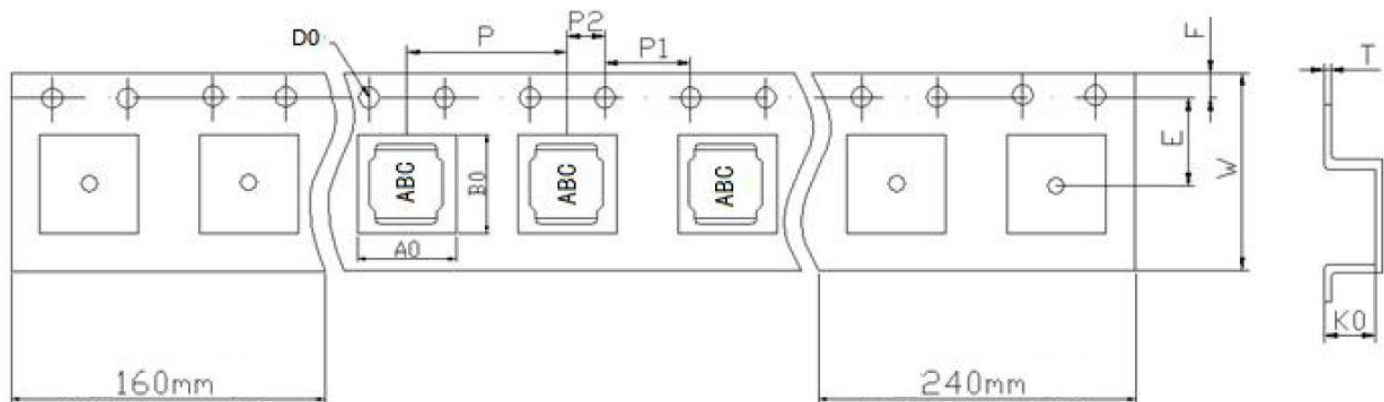
A	B	C	D Typ.
6.0±0.3	6.0±0.3	2.0 MAX	1.50

6.1 Recommended Land Pattern

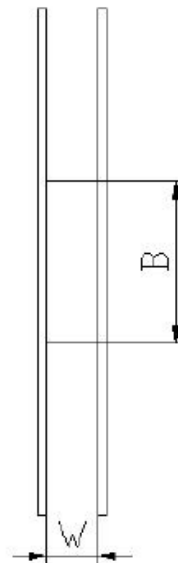
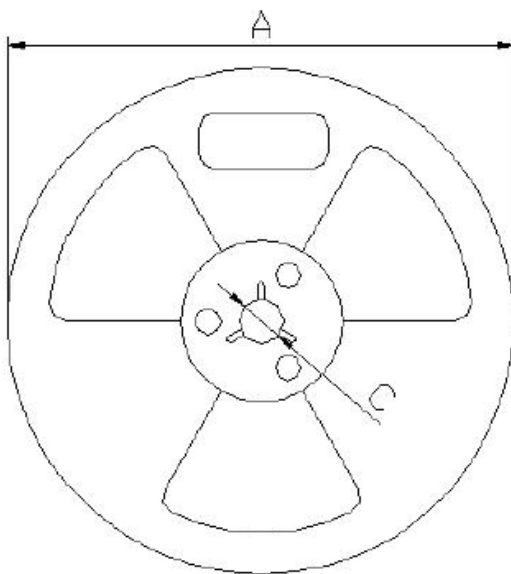


8.0 Packing

T2: 3,000pcs / reel



Dim	W	A0	B0	K0	P	E	F	D0	P0	P2	T
ASPI-0615FS	12.0±0.3	6.3±0.1	6.3±0.1	2.2±0.1	8.0±0.1	7.5±0.1	1.75±0.1	1.5±0.1	4.0±0.1	2.0±0.1	0.35±0.05



A	330±0.5
B	100±0.5
C	13.5±0.5
W	12.5±0.5

Cause/Reason for Change:
Moving to new production line

Change Plan

Effective Date:
6/21/2022

Additional Remarks:

Change Declaration:
Changes listed here do not affect the products form, fit or function.

Issued Date:
6/21/2022

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: