

**ECN/PCN No.: M1209** 

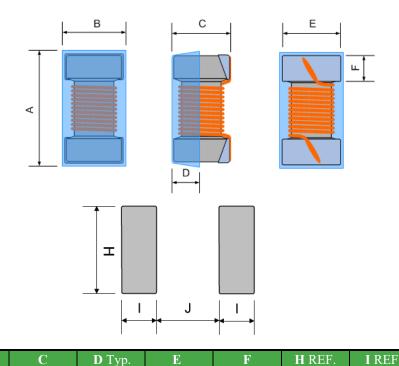
For Manufacturer						
Product Description:	Abracon Part Number / Part Series:	☐ Documentation only	⊠ Series			
FERRITE WIRE WOUND INDUCTORS	AISC-0402F series	☑ ECN ☐ EOL	□ Part Number(s)			
Affected Revision:	New Revision:	Application:	☐ Safety ☑ Non-Safety			

**Prior to Change:** 

### 1.0 Key Electrical Specifications

Part Number AISC-0402F- Inductance Code	Inductance	Tolerance	L Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
Units	nH		MHz	$\Omega$	mA	MHz
Symbol	L		Freq.	DCR	Ir	S.R.F
AISC-0402F-18N	18	J, K, M	100	0.046	1400	3000
AISC-0402F-33N	33	J, K, M	100	0.065	1300	1800
AISC-0402F-48N	48	J, K, M	100	0.078	1100	1400
AISC-0402F-70N	70	J, K, M	100	0.120	820	1300
AISC-0402F-96N	96	J, K, M	100	0.160	730	1100
AISC-0402F-R13	130	J, K, M	100	0.230	640	1000
AISC-0402F-R16	160	J, K, M	100	0.330	480	900
AISC-0402F-R22	200	J, K, M	100	0.470	390	800

### 7.0 Mechanical Dimensions



0.25



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 $1.1 \pm 0.1$ 



 $0.6 \pm 0.1$ 

В

 $0.6\pm0.1$ 





 $0.2 \pm 0.1$ 



0.65

0.35



J REF.

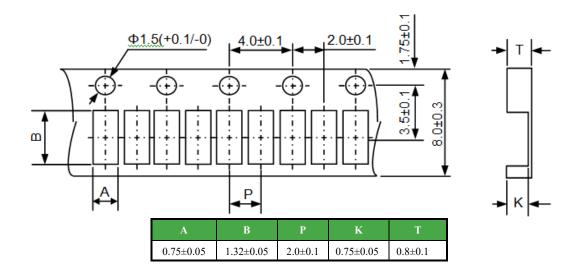
0.50

 $0.5\pm0.1$ 



### 9.0 Packing

T= tape and reel (10,000pcs/reel)















### After Change:

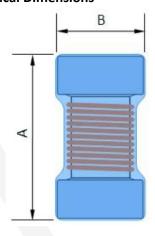
### 1.0 Key Electrical Specifications

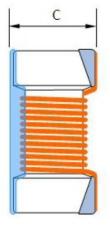
Part Number AISC-0402F- Inductance Code	Inductance	Tolerance	L Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
Units	nH		MHz	$\Omega$	mA	MHz
Symbol	L		Freq.	DCR	Ir	S.R.F
AISC 0402F 18N	<del>18</del>	J, K, M	<del>100</del>	0.046	<del>1400</del>	<del>3000</del>
AISC-0402F-20N	20	J, K, M	7.9	0.050	1600	2600
AISC-0402F-33N	33	J, K, M	<mark>7.9</mark>	0.060	<mark>1400</mark>	<mark>2300</mark>
AISC 0402F 48N	48	J, K, M	<del>100</del>	0.078	<del>1100</del>	<del>1400</del>
AISC-0402F-56N	56	J, K, M	7.9	0.095	1000	1900
AISC 0402F 70N	<del>70</del>	<del>J, K, M</del>	<del>100</del>	0.120	<del>820</del>	<del>1300</del>
AISC-0402F-72N	72	J, K, M	7.9	0.100	1000	1650
AISC-0402F-85N	85	J, K, M	7.9	0.130	970	1600
AISC-0402F-96N	96	J	100	0.160	730	1100
AISC-0402FR10	100	J, K, M	7.9	0.160	900	1400
AISC-0402FR14	140	J, K, M	7.9	0.260	630	1220
AISC-0402FR18	180	J, K, M	7.9	0.280	560	1150
AISC-0402F-R13	<del>130</del>	<del>J, K, M</del>	<del>100</del>	0.230	<del>640</del>	<del>1000</del>
AISC 0402F R16	<del>160</del>	<del>J, K, M</del>	<del>100</del>	0.330	<del>480</del>	900
AISC-0402F-R20	200	J, K, M	<mark>7.9</mark>	<mark>0.440</mark>	<mark>400</mark>	1000
AISC-0402FR22	220	J, K, M	7.9	0.530	380	1150
AISC-0402FR27	270	J, K, M	7.9	0.550	360	860
AISC-0402FR33	330	J, K, M	7.9	0.560	350	820
AISC-0402FR39	390	J, K, M	7.9	0.750	300	760
AISC-0402FR47	470	J, K, M	7.9	0.730	310	650
AISC-0402FR56	560	J, K, M	7.9	0.920	200	600
AISC-0402F2R2	2200	K, M	1.0	1.800	170	100

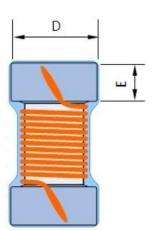
## Key

Spec Changed
Addition to series
Removal from series

#### 6.0 Mechanical Dimensions







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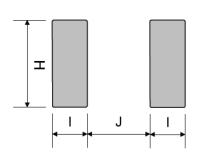








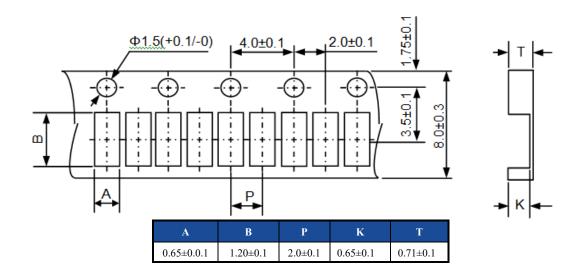




A	В	C	D	E	H REF.	I REF.	J REF.
1.1±0.1	0.6±0.1	0.55±0.1	0.50±0.1	0.20±0.1	0.65	0.35	0.50

#### 9.0 Packaging

T= tape and reel (10,000pcs/reel)



#### **Cause/Reason for Change:**

Production moving to new product line. Updating the series with popular values and removing unpopular values.

Correcting datasheet part number for the AISC-0402F-R22 which is a 200nH inductor. The corrected part number is changed to AISC-0402F-R20.

There is a partial EOL for PNs related to this ECN. (Refer to Partial ECN-EOL #M1209 AISC-0402F Series: https://abracon.com/downloads/ECN-PCN/Partial-ECN-EOL-M1209-AISC-0402F-Series.pdf.)

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Change Plan							
Effective Date:	Additional Remarks:						
12/16/2020							
Change Declaration:							
Changes described here have no negative	Changes described here have no negative effects on products form, fit or function.						
There is a partial EOL for PNs related to th <a href="https://abracon.com/downloads/ECN-PC">https://abracon.com/downloads/ECN-PC</a>							
Issued Date:	Issued By:		Issued Date:				
12/16/2020	Gerald Co	apwell	12/16/2020				
Approval:	Approval:		Approval:				
Syed Raza Engineering VP	Reuben Qu Quality D		Syed Raza Engineering VP				
Lingineering vr			Liigineering vr				
		n EOL only					
Last Time Buy (if applicable):		Alternate Part Nun	iber / Part Series:				
Additional Approval:	Additional Approval:		Additional Approval:				
	Customer Appro	val (If Applicable)					
Qualification Status:							
Note: It is considered approved if there is r		] Not accepted stomer 1 month aft	er ECN/PCN is released.				
Customer Part Number:		<b>Customer Project</b>					
Company Name:	Company Representative:		Representative Signature:				
Customer Remarks:							

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