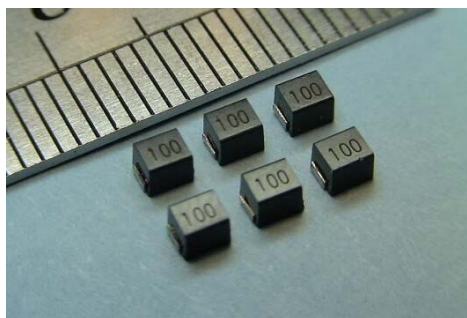


Wire Wound Ferrite Chip Inductors-FI Series / Conform with RoHS Directive  
巻線モールドチップインダクタ-FIシリーズ / RoHS対応型 [ SIGNAL信号用 ]

FI2520 Wire wound chip inductor



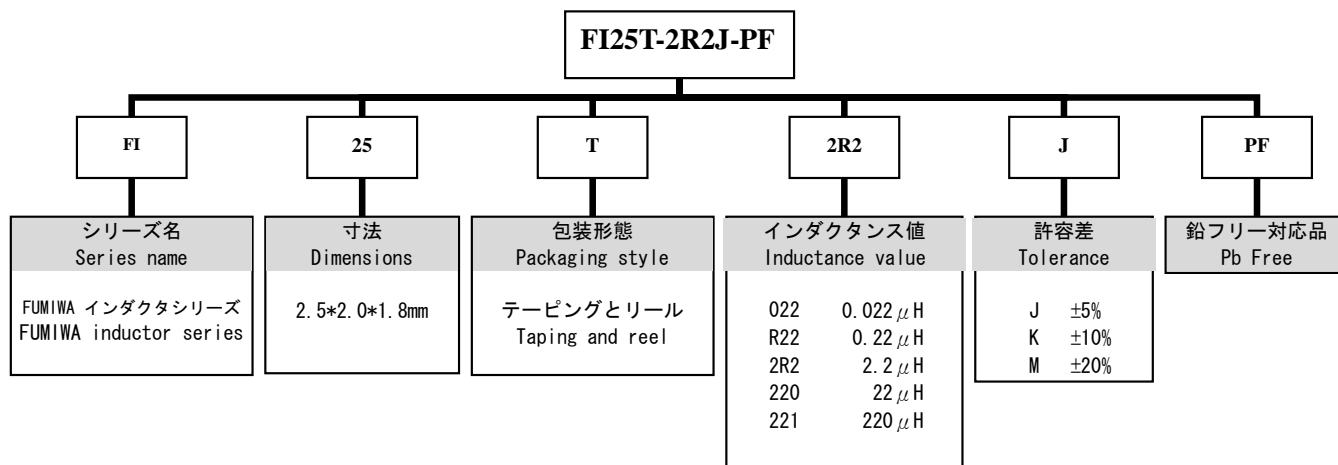
特長 FEATURES

- ・ FI2520巻線形構造の面実装小形固チップインダクタ
- ・ 耐熱樹脂成形による優れた耐熱性と機械的強度を有したインダクタ
- ・ 鉛フリー対応リフローはんだ付け条件に対して高い耐熱性があります。
- ・ 本製品は、RoHS 指令で予定されている基準に準拠しております
- ・ The FI2520 series is a ferrite core wire wound surface mount chip inductor.
- ・ High quality inductor that is simple to mass-produce and conforms to the same production process and basic construction as an axial lead type inductor.
- ・ Constructed of heat-resistant molded resin having excellent heat resistance and mechanical strength.
- ・ The product has good heat durability that withstands lead-free compatible reflow, flow and iron soldering conditions.
- ・ This product conforms to the RoHS standard.

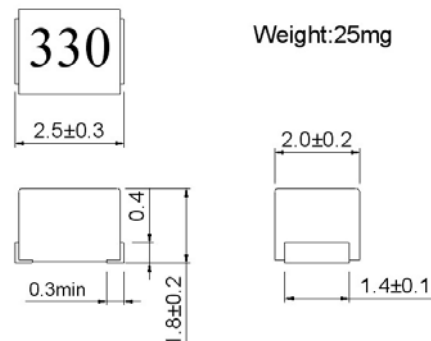
用途 APPLICATIONS

- ・ デジタルテレビ, DVDレコーダ, HDD, FDD, MP3, VTRカメラ, 移動体通信, カーナビゲーションシステム, コンピュータ周辺機器, ゲームマシン。
- ・ Digital TV, DVD Recorder, Hard Disk Drives, Floppy Disk Drives, MP3, Video cameras, Mobile communications, Car audio equipment, Computer peripherals, Game machine.

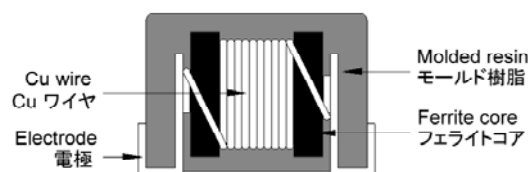
品名識別 PRODUCT IDENTIFICATION



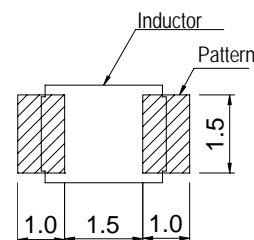
外形寸法 SHAPE AND DIMENSIONS (mm)



構造図 CONSTRUCTION



推奨ランドパターン RECOMMENDED PATTERN



仕様 SPECIFICATIONS

動作温度範囲 Operating temperature range	-40 to +85°C
保存温度範囲 Storage temperature range	-40 to +85°C
包装形態 Packaging style	テーピング Taping
包装個数 Quantities	2000 個/リール 2000 pieces/reel

Wire Wound Ferrite Chip Inductors-FI Series / Conform with RoHS Directive  
 巻線モールドチップインダクタ-FIシリーズ / RoHS対応型 [ SIGNAL信号用 ]

電気的特性

ELECTRICAL CHARACTERISTICS

インダクタンス Inductance (uH)	インダクタンス許容差 Inductance tolerance	Q min	L、Q測定周波数 Test Frequency L, Q (MHz)	自己共振周波数 Self-resonant frequency (MHZ) min.	直流抵抗 DC resistance (Ω) max	定格電流 Rated current (mA) max	品名 Part No.
0.01	±10%, ±20%	15	100	2150	0.26	530	FI25T-010K-PF
0.012	±10%, ±20%	15	100	2050	0.27	500	FI25T-012K-PF
0.015	±10%, ±20%	15	100	2000	0.29	480	FI25T-015K-PF
0.018	±10%, ±20%	15	100	1850	0.31	450	FI25T-018K-PF
0.022	±10%, ±20%	15	100	1650	0.37	420	FI25T-022K-PF
0.027	±10%, ±20%	15	100	1550	0.4	410	FI25T-027K-PF
0.033	±10%, ±20%	20	100	1450	0.42	400	FI25T-033K-PF
0.039	±10%, ±20%	20	100	1350	0.45	380	FI25T-039K-PF
0.047	±10%, ±20%	20	100	1200	0.5	360	FI25T-047K-PF
0.056	±10%, ±20%	20	100	1100	0.6	340	FI25T-056K-PF
0.068	±10%, ±20%	20	100	1050	0.65	320	FI25T-068K-PF
0.082	±10%, ±20%	20	100	900	0.75	300	FI25T-082K-PF
0.1	±10%, ±20%	20	100	800	0.8	280	FI25T-R10K-PF
0.12	±5%, ±10%, ±20%	30	25.2	700	0.3	550	FI25T-R12J-PF
0.15	±5%, ±10%, ±20%	30	25.2	550	0.35	500	FI25T-R15J-PF
0.18	±5%, ±10%, ±20%	30	25.2	500	0.4	460	FI25T-R18J-PF
0.22	±5%, ±10%, ±20%	30	25.2	450	0.5	430	FI25T-R22J-PF
0.27	±5%, ±10%, ±20%	30	25.2	425	0.55	420	FI25T-R27J-PF
0.33	±5%, ±10%, ±20%	30	25.2	400	0.6	400	FI25T-R33J-PF
0.39	±5%, ±10%, ±20%	30	25.2	375	0.65	375	FI25T-R39J-PF
0.47	±5%, ±10%, ±20%	30	25.2	350	0.68	350	FI25T-R47J-PF
0.56	±5%, ±10%, ±20%	30	25.2	325	0.75	325	FI25T-R56J-PF
0.68	±5%, ±10%, ±20%	30	25.2	300	0.85	300	FI25T-R68J-PF
0.82	±5%, ±10%, ±20%	30	25.2	260	1	260	FI25T-R82J-PF
1	±5%, ±10%	30	7.96	245	1.1	245	FI25T-1R0J-PF
1.2	±5%, ±10%	30	7.96	230	1.2	230	FI25T-1R2J-PF
1.5	±5%, ±10%	30	7.96	182	1.3	220	FI25T-1R5J-PF
1.8	±5%, ±10%	30	7.96	135	1.45	210	FI25T-1R8J-PF
2.2	±5%, ±10%	30	7.96	105	1.55	200	FI25T-2R2J-PF
2.7	±5%, ±10%	30	7.96	70	1.7	195	FI25T-2R7J-PF
3.3	±5%, ±10%	30	7.96	55	1.9	185	FI25T-3R3J-PF
3.9	±5%, ±10%	30	7.96	48	2.1	180	FI25T-3R9J-PF

## Wire Wound Ferrite Chip Inductors-FI Series / Conform with RoHS Directive

### 巻線モールドチップインダクタ-FIシリーズ / RoHS対応型 [ SIGNAL信号用 ]

## 電氣的特性

## ELECTRICAL CHARACTERISTICS

インダクタンス Inductance (uH)	インダクタンス許容差 Inductance tolerance	Q min	L、Q測定周波数 Test Frequency L, Q (MHz)	自己共振周波数 Self-resonant frequency (MHZ) min.	直流抵抗 DC resistance (Ω) max	定格電流 Rated current (mA) max	品名 Part No.
4.7	±5%, ±10%	30	7.96	43	2.3	175	FI25T-4R7J-PF
5.6	±5%, ±10%	25	7.96	42	2.5	170	FI25T-5R6J-PF
6.8	±5%, ±10%	25	7.96	39	2.7	165	FI25T-6R8J-PF
8.2	±5%, ±10%	25	7.96	34	3.05	160	FI25T-8R2J-PF
10	±5%, ±10%	25	2.52	30	3.5	155	FI25T-100J-PF
12	±5%, ±10%	25	2.52	28	3.8	150	FI25T-120J-PF
15	±5%, ±10%	25	2.52	24	4.4	140	FI25T-150J-PF
18	±5%, ±10%	25	2.52	22	4.8	130	FI25T-180J-PF
22	±5%, ±10%	25	2.52	20	5.5	125	FI25T-220J-PF
27	±5%, ±10%	25	2.52	18	6.3	115	FI25T-270J-PF
33	±5%, ±10%	25	2.52	16	7.1	110	FI25T-330J-PF
39	±5%, ±10%	20	2.52	14	9.5	90	FI25T-390J-PF
47	±5%, ±10%	20	2.52	12	11.1	80	FI25T-470J-PF
56	±5%, ±10%	20	2.52	12	12.1	75	FI25T-560J-PF
68	±5%, ±10%	20	2.52	10	16.6	70	FI25T-680J-PF
82	±5%, ±10%	20	2.52	10	19	66	FI25T-820J-PF
100	±5%, ±10%	15	0.796	8	21	60	FI25T-101J-PF

## • Test equipment

L, Q: HP4291B RF Impedance/Material Analyzer [  $L \leq 0.1\mu\text{H}$  ]HP4285A+16034E [  $L \geq 0.12\mu\text{H}$  ]

SRF: HP4291B RF Impedance/Material Analyzer

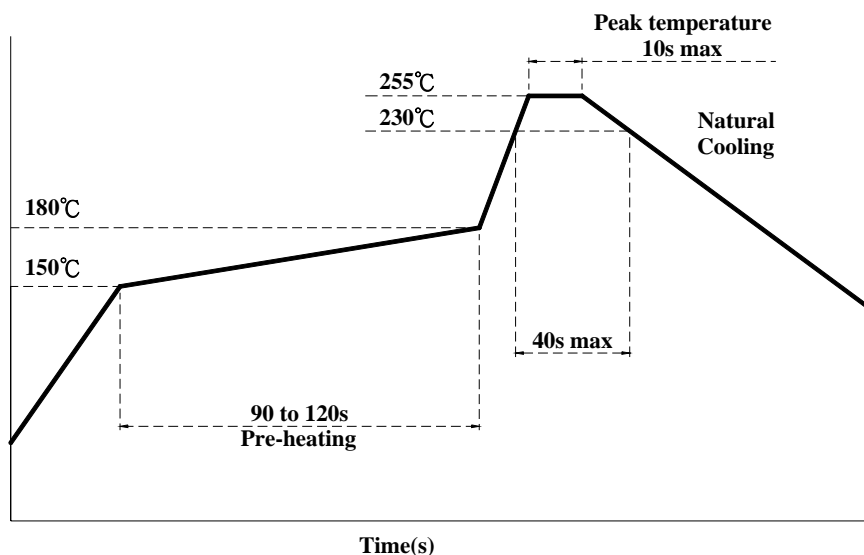
Rdc: ADEX AX-114N

## Wire Wound Ferrite Chip Inductors-FI Series / Conform with RoHS Directive 巻線モールドチップインダクタ-FIシリーズ / RoHS対応型 [ SIGNAL信号用 ]

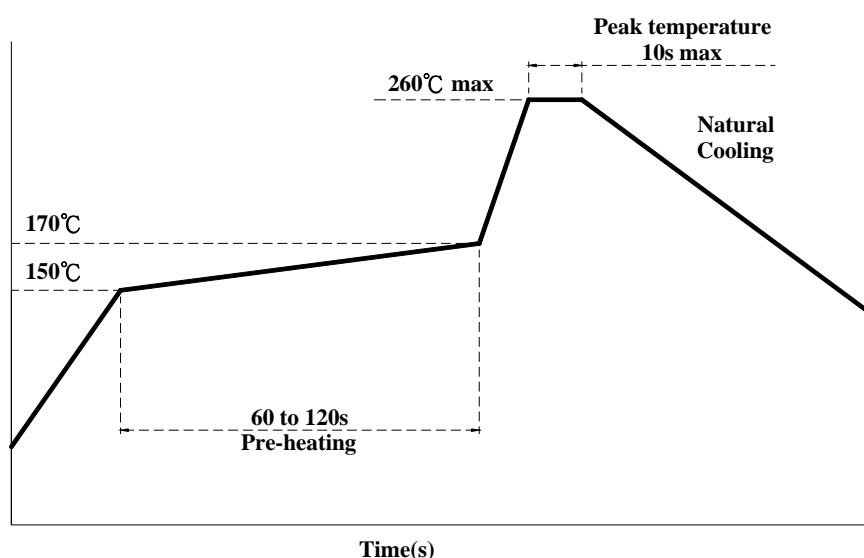
推奨はんだ付け条件

### RECOMMENDED SOLDERING CONDITIONS

#### リフローはんだ付け法 / REFLOW SOLDERING



#### フローはんだ付け法 / FLOW SOLDERING



#### こてはんだ付け法 / IRON SOLDERING

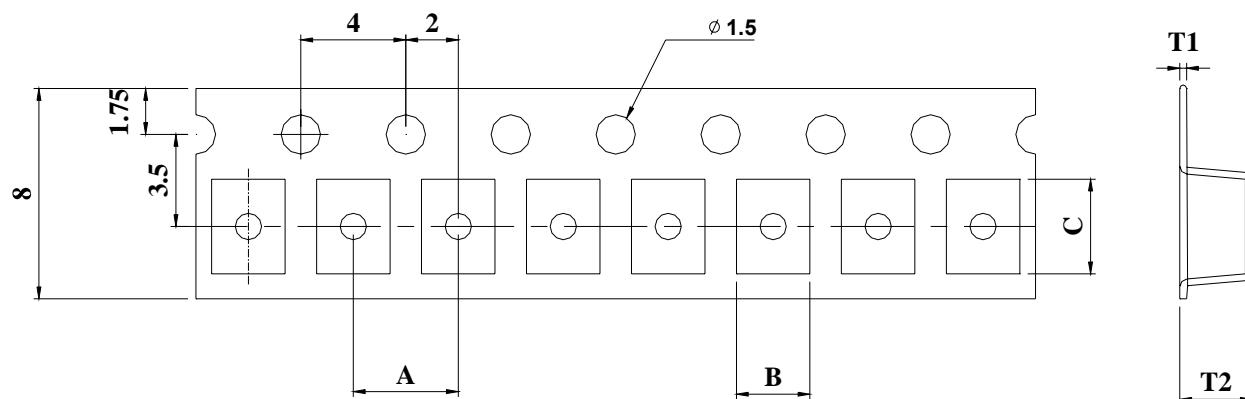
こて先端温度	300~350°C
Tip temperature	300 to 350°C
加熱時間	3s/回
Heating time	3 sec/soldering
こて条件	出力30W、先端径1mm
Soldering rod specifications	Output: 30W Tip diameter: 1mm

- 上記条件にて、製品温度が260°C max. / 累積加熱時間10s max. を目安としてください。
- 詳細につきましてはお問い合わせください
- Based on the above conditions, use a maximum product temperature of 260°C and a maximum accumulated heating time of 10 seconds as a guideline.
- Please contact us for details

**Wire Wound Ferrite Chip Inductors-FI Series / Conform with RoHS Directive**  
**巻線モールドチップインダクタ-FIシリーズ / RoHS対応型 [ SIGNAL信号用 ]**

**テーピング仕様 / TAPING SPECIFICATIONS**

テープ寸法(単位 : mm) / Tape dimensions (Unit: mm)



Product	Product's thickness (mm)	A (mm)	B (mm)	C (mm)	T1 (mm)	T2 (mm)	QTY
FI2520	2.2±0.2	4.0	2.8	3.5	0.3	2.45	2000Pcs/reel

リール寸法(単位 : mm) / Reel dimensions (Unit: mm)

