

Specification of Cjiang products

Customer	
Product Name	Molding Power Inductors
Customer P/N:	
Cjiang P/N:	FPIB Series

[☒ New Released, ☐ Revised]

SPEC No.:

REMARK:

Customer Approval Feedback

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Version change history

Rev	Date	Description	APPROVED	CHECKED	DRAWN
1.0	2024/8/9	Document formulation	BOND	Charles	Roy

Caution :

All products listed in this specification are developed, designed and intended for use in general electronics equipment. The products are not designed or Warranted to meet the requirements of the applications listed below, whose performance and/or quality require especially high reliability, or whose failure, malfunction or trouble might directly cause damage to society, person, or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below. Please contact us for more details if you intend to use our products in the following applications.

1. Aircraft equipment.
2. Aerospace equipment.
3. Undersea equipment.
4. nuclear control equipment.
5. military equipment.
6. Power plant equipment.
7. Medical equipment.
8. Transportation equipment (automobiles, trains, ships,etc.)
9. Traffic signal equipment.
10. Disaster prevention / crime prevention equipment.
11. Data-processing equipment.
12. Applications of similar complexity or with reliability requirements comparable to the applications listed in the above.

Features

- High rated current
- Frequency up to 3 MHz
- 125°C maximum total temperature operation
- Low core loss
- Ultra low buzz noise due to molding construction
- Halogen Free & ROHS compliant

Applications

- Laptops and PCs
- Switch and servers
- Base stations
- DC/DC converters
- Battery powered devices
- SSD modules

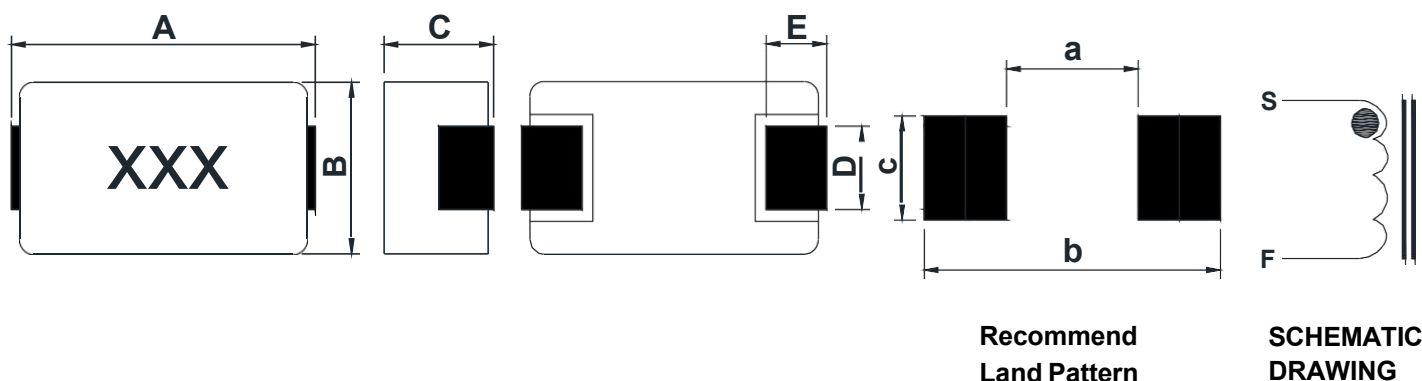
Product Identification

FPIB 1064 - R12 M XA

① ② ③ ④ ⑤

- ① Series name
- ② Product dimensions (1064:10*6*4.0 mm)
- ③ Inductance Value (R12:0.12uH)
- ④ Inductance Tolerance (M= $\pm 20\%$)
- ⑤ Internal Code

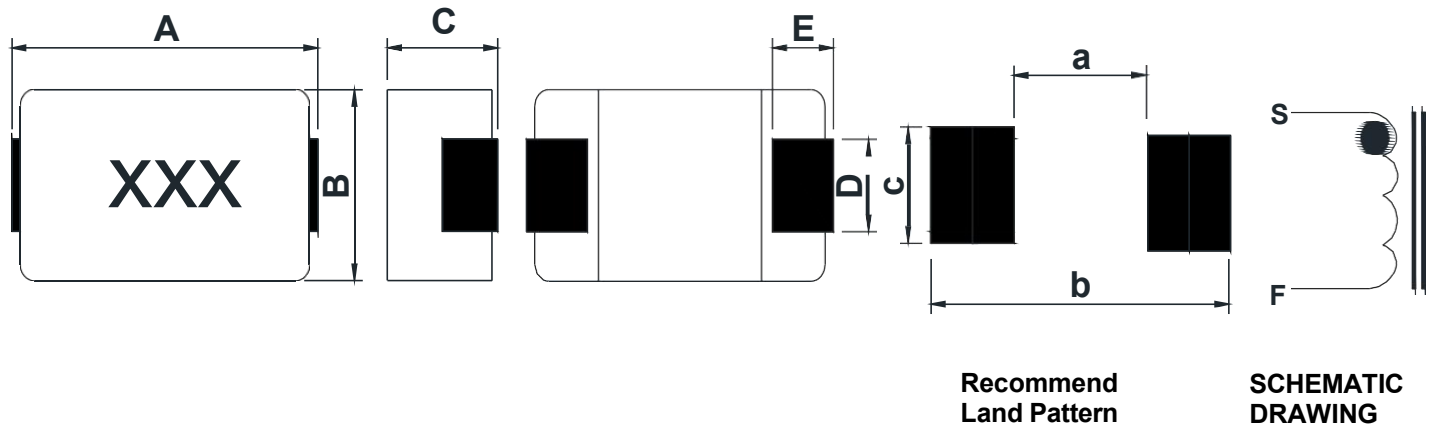
Dimensions (unit:mm)



Remarks:

series	A	B	C	D	E	a (typ)	b (typ)	c (typ)
FPIB1063	10.50 MAX	5.80 MAX	3.00 MAX	2.80±0.50	2.20±0.50	4.80	10.80	3.50
FPIB1064	10.50 MAX	5.80 MAX	4.00 MAX	2.80±0.50	2.20±0.50	4.80	10.80	3.50
FPIB1065	10.50 MAX	5.80 MAX	5.00 MAX	2.80±0.50	2.20±0.50	4.80	10.80	3.50
FPIB1073	10.10±0.50	7.00±0.50	3.00 MAX	2.50±0.50	2.00±0.50	5.50	12.50	3.50
FPIB1074	10.10±0.50	7.00±0.50	4.00 MAX	2.50±0.50	2.00±0.50	5.50	12.50	3.50
FPIB1075	10.10±0.50	7.00±0.50	5.00 MAX	2.50±0.50	2.00±0.50	5.50	12.50	3.50
FPIB1084	11.30±0.50	8.30±0.50	4.00 MAX	4.40±0.50	2.20±0.50	5.00	12.50	5.00
FPIB1085	11.30±0.50	8.30±0.50	5.00 MAX	4.40±0.50	2.20±0.50	5.00	12.50	5.00
FPIB1087	11.30±0.50	8.30±0.50	7.00 MAX	4.40±0.50	2.20±0.50	5.00	12.50	5.00
FPIB1174	11.20±0.50	7.20±0.50	4.00 MAX	2.8±0.50	2.20±0.50	5.50	12.50	3.50
FPIB1175	11.20±0.50	7.20±0.50	5.00 MAX	2.8±0.50	2.20±0.50	5.50	12.50	3.50
FPIB130830	12.80±0.50	8.00±0.50	3.00 MAX	3.50±0.50	2.50±0.50	6.00	14.50	5.00
FPIB130840	12.80±0.50	8.00±0.50	4.00 MAX	3.50±0.50	2.50±0.50	6.00	14.50	5.00
FPIB130850	12.80±0.50	8.00±0.50	5.00 MAX	3.50±0.50	2.50±0.50	6.00	14.50	5.00
FPIB1685	17.50 MAX	8.70±0.30	5.00 MAX	4.00±0.50	3.00±0.50	9.00	18.00	5.50

Dimensions (unit:mm)



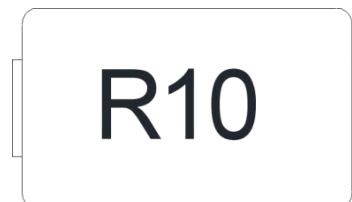
Remarks:

series	A	B	C	D	E	a (typ)	b (typ)	c (typ)
FPIB1075D	10.10±0.50	7.00±0.50	5.00 MAX	3.50±0.50	2.20±0.50	5.50	12.50	3.50
FPIB1076D	10.10±0.50	7.00±0.50	6.00 MAX	3.50±0.50	2.20±0.50	5.50	12.50	3.50
FPIB1274	12.20±0.50	6.90±0.50	4.00 MAX	4.00±0.50	2.40±0.50	6.00	14.00	5.00
FPIB1275	12.20±0.50	6.90±0.50	5.00 MAX	4.00±0.50	2.40±0.50	6.00	14.00	5.00
FPIB1384	12.80±0.50	8.00±0.50	4.00MAX	4.20±0.50	2.50±0.50	6.00	14.50	5.00
FPIB1385	12.80±0.50	8.00±0.50	5.00MAX	4.20±0.50	2.50±0.50	6.00	14.50	5.00

Marking

- The inductor is marked with a 3-digit code

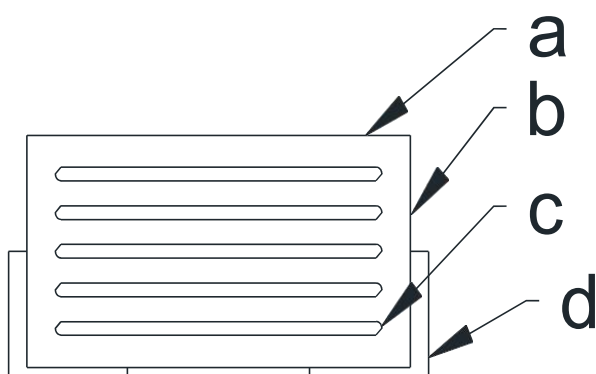
Nominal	Inductance
Example	Nominal Value
R10	0.10 μ H
R20	0.20 μ H
1R0	1.00 μ H



Note:Using Ink for marking

Structure and Components

Symbol	Components	Material
a	MARKING	Ink(black)
b	CORE	Carbonyl powder
c	WIRE	Polyurethane copper wire
d	Terminal	Copper plated with Sn



Electrical characteristics

- FPIB106X TYPE:

Part No.	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	MAX(TYP)	TYP.	TYP.
FPIB1063-R12M-XA	0.12	1.04(0.90)	70.0	35.0
FPIB1063-R15M-XA	0.15	1.04(0.90)	60.0	35.0
FPIB1064-R10M-XA	0.10	0.75(0.60)	120.0	45.0
FPIB1064-R12M-XA	0.12	0.75(0.60)	100.0	40.0
FPIB1064-R15M-XA	0.15	0.75(0.60)	80.0	35.0
FPIB1064-R18M-XA	0.18	0.75(0.60)	60.0	30.0
FPIB1064-R36M-XA	0.36	1.60(1.40)	50.0	24.0
FPIB1065-R24M-XA	0.24	1.05(0.86)	60.0	37.0
FPIB1065-R33M-XA	0.33	1.60(1.40)	50.0	30.0

● FPIB107X TYPE:

Part No.	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	MAX(TYP)	TYP.	TYP.
FPIB1073-R12M-XA	0.12	0.70(0.60)	50.00	35.00
FPIB1074-R15M-XA	0.15	0.65(0.55)	75.00	55.00
FPIB1074-R22M-XA	0.22	0.82(0.71)	50.00	32.00
FPIB1074-R22M-XB	0.22	0.95(0.86)	50.00	32.00
FPIB1075-R10M-XA	0.10	0.70(0.60)	100.0	44.00
FPIB1075-R12M-XA	0.12	0.52(0.45)	100.00	45.00
FPIB1075-R12M-XB	0.12	0.70(0.60)	90.00	44.00
FPIB1075-R15M-XA	0.15	0.52(0.45)	85.00	42.00
FPIB1075-R15M-XB	0.15	0.70(0.60)	85.00	42.00
FPIB1075-R22M-XA	0.22	0.70(0.60)	60.00	35.00
FPIB1075-R22M-XB	0.22	1.05(0.91)	60.00	35.00
FPIB1075-R30M-XA	0.30	1.27(1.10)	50.00	30.00
FPIB1075-R33M-XA	0.33	1.65(1.45)	55.00	28.00
FPIB1075-R47M-XA	0.47	1.65(1.45)	50.00	25.00

● FPIB108X TYPE:

Part No.	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	MAX(TYP)	TYP.	TYP.
FPIB1084-R15M-XA	0.15	0.52(0.45)	75.00	45.00
FPIB1084-R15M-XB	0.15	0.80(0.62)	90.00	45.00
FPIB1084-R20M-XA	0.20	0.52(0.45)	70.00	45.00
FPIB1084-R22M-XA	0.22	0.80(0.62)	70.00	40.00
FPIB1085-R10M-XA	0.10	0.52(0.45)	80.00	45.00
FPIB1085-R15M-XA	0.15	0.52(0.45)	75.00	45.00
FPIB1085-R20M-XA	0.20	0.80(0.62)	75.00	45.00
FPIB1085-R22M-XA	0.22	0.80(0.62)	75.00	45.00
FPIB1085-R30M-XA	0.30	0.85(0.70)	75.00	45.00
FPIB1087-R42M-XA	0.42	0.86(0.75)	55.00	45.00
FPIB1087-R47M-XA	0.47	0.86(0.75)	50.00	45.00

● FPIB117X TYPE:

Part No.	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	MAX(TYP)	TYP.	TYP.
FPIB1174-R10M-XA	0.10	0.50(0.43)	120.00	40.00
FPIB1174-R15M-XA	0.15	0.50(0.43)	70.00	40.00
FPIB1174-R22M-XA	0.22	0.75(0.65)	60.00	30.00
FPIB1174-R33M-XA	0.33	1.21(1.05)	45.00	35.00
FPIB1175-R15M-XA	0.15	0.50(0.43)	75.00	40.00
FPIB1175-R22M-XA	0.22	0.70(0.60)	70.00	40.00
FPIB1175-R33M-XA	0.33	0.95(0.82)	60.00	35.00

● FPIB1308XX TYPE:

Part No.	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	MAX(TYP)	TYP.	TYP.
FPIB130830-R22M-XA	0.22	0.90(0.80)	50.00	35.00
FPIB130835-R30M-XA	0.30	0.90(0.80)	45.00	30.00
FPIB130840-R10M-XA	0.10	0.50(0.40)	120.00	50.00
FPIB130840-R12M-XA	0.12	0.50(0.40)	100.00	45.00
FPIB130840-R15M-XA	0.15	0.60(0.50)	90.00	48.00
FPIB130840-R22M-XA	0.22	0.60(0.50)	80.00	45.00
FPIB130840-R30M-XA	0.30	0.95(0.83)	60.00	40.00
FPIB130840-R33M-XA	0.33	0.95(0.83)	60.00	35.00
FPIB130840-R47M-XA	0.47	1.40(1.15)	50.00	32.00
FPIB130850-R10M-XA	0.10	0.50(0.40)	130.00	50.00
FPIB130850-R15M-XA	0.15	0.50(0.40)	110.00	50.00
FPIB130850-R22M-XA	0.22	0.60(0.50)	100.00	45.00
FPIB130850-R33M-XA	0.33	0.75(0.65)	70.00	35.00
FPIB130850-R47M-XA	0.47	1.20(1.00)	60.00	30.00
FPIB130850-1R0M-XA	1.00	2.55(2.20)	33.00	23.00

● FPIB168X TYPE:

Part No.	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	MAX.	TYP.	TYP.
FPIB1685-R21M-XA	0.21	0.60(0.52)	120.00	52.00
FPIB1685-R33M-XA	0.33	0.70(0.59)	100.00	48.00
FPIB1685-R47M-XA	0.47	1.00(0.82)	80.00	42.00
FPIB1685-R68M-XA	0.68	1.20(1.02)	70.00	40.00

● FPIB107XD TYPE:

Part No.	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	MAX(TYP)	TYP.	TYP.
FPIB1075D-R10M-XA	0.10	0.45(0.36)	100.0	50.00
FPIB1075D-R12M-XA	0.12	0.45(0.36)	85.00	45.00
FPIB1075D-R15M-XA	0.15	0.45(0.36)	70.00	42.00
FPIB1075D-R20M-XA	0.20	0.60(0.50)	70.00	42.00
FPIB1076D-R12M-XA	0.12	0.50(0.40)	90.00	45.00
FPIB1076D-R15M-XA	0.15	0.50(0.40)	80.00	42.00

● FPIB127X TYPE:

Part No.	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	MAX(TYP)	TYP.	TYP.
FPIB1274-R12M-XA	0.12	0.52(0.47)	85.00	45
FPIB1274-R15M-XA	0.15	0.52(0.47)	75.00	45
FPIB1275-R12M-XA	0.12	0.52(0.47)	90.00	45
FPIB1275-R15M-XA	0.15	0.52(0.47)	80.00	45

● FPIB138X TYPE:

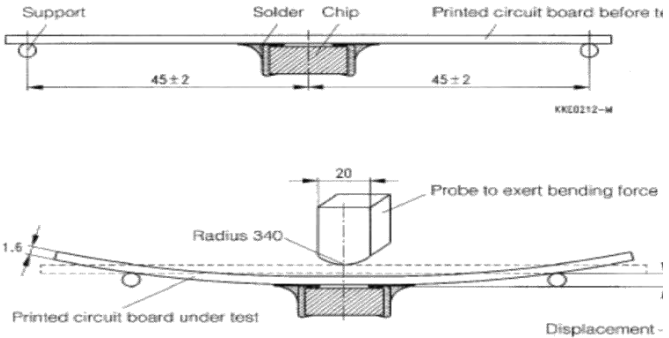
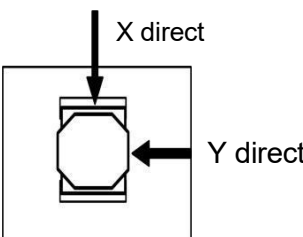
Part No.	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	MAX(TYP)	TYP.	TYP.
FPIB1384-R12M-XA	0.12	0.50(0.40)	100.00	50.00
FPIB1385-R12M-XA	0.12	0.50(0.40)	100.00	55.00
FPIB1385-R15M-XA	0.15	0.50(0.40)	90.00	50.00

● Notes

1. All test data is referenced to 25 °C ambient
2. Operating temperature range - 55 °C to + 125 °C
3. Irms (A):DC current (A) that will cause an approximate ΔT of 40 °C
(reference ambient temperature is 25 °C)
4. Isat(A):DC current (A) that will cause L0 to drop approximately 30 %
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
6. Absolute maximum voltage 30V

Reliability Test

Item	Specification and Requirement	Test Method								
Solderability	1. No case deformation or change in apperance 2. New solder coverage More than 90%	1. Preheat: 155℃±5℃ , 2. 60S±2S 2.Tin: lead-free. 3. Temperature:245℃±5℃, flux 3.0S±0.5S.								
Mechanical shock	1. No case deformation or change in apperance 2. ΔL/Lo≦±10%	1. Acceleration: 100G 2. Pulse time:: 6ms 3. 3 times in each positive and negative direction of 3 mutual perpendicular directions								
Mechanical vibration	1. No case deformation or change in apperance 2. ΔL/Lo≦±10%	1. The test samples shall be soldered to the board. Then it shall be submitted to below test conditions. <table><tr><td>Fre. Range</td><td>10~55Hz</td></tr><tr><td>Total Amplitude</td><td>1.5mm</td></tr><tr><td>Sweeping Method</td><td>10Hz to 55Hz to 10Hz</td></tr><tr><td>Time</td><td>For 2 hours on each X,Y,Z axis.</td></tr></table> 2. Recovery: At least 2 hours of recovery under the standard condition after the test, followed by the measurement within 24 ±2 hours.	Fre. Range	10~55Hz	Total Amplitude	1.5mm	Sweeping Method	10Hz to 55Hz to 10Hz	Time	For 2 hours on each X,Y,Z axis.
Fre. Range	10~55Hz									
Total Amplitude	1.5mm									
Sweeping Method	10Hz to 55Hz to 10Hz									
Time	For 2 hours on each X,Y,Z axis.									
Thermal Shock	Inductance change: Within ± 10% Without distinct damage in appearance	1. First -55℃ for 30 minutes,last 125℃ for 30 minutes as 1 cycle. Go through 1000 cycles. 2. Max transfer time is 2 minutes. 3. Measured at room temperature after placing for 24±2 hours								
Humidity Resistance	Inductance change: Within ± 10% Without distinct damage in appearance	1. Reflow 2 times, 2. 85℃,85%RH,1000 hours 3. Measured at room temperature after placing for 24±2hours								
Low temperature storage	Inductance change: Within ± 10% Without distinct damage in appearance	1. Temperature: -55 ± 2℃ 2. Time: 1000 hours 3. Measured at room temperature after placing for 24±2 hours								

High temperature storage	Inductance change: Within $\pm 10\%$ Without distinct damage in appearance	1. Temperature: $+125 \pm 2^\circ\text{C}$ 2. Time: 1000 hours 3. Measured at room temperature after placing for 24 ± 2 hours
Board Flex	Inductance change: Within $\pm 10\%$ Without distinct damage in appearance	1. Run through IR reflow for 2 times; 2. Place the 100mm X 40mm board into a fixture similar to the one shown in below Figure with the component facing down 3. The apparatus shall consist of mechanical means to apply a force which will bend the board (D) x = 2 mm minimum. 4. The duration of the applied forces shall be 60 ± 5 sec. The force is to be applied only once to the board. 
Terminal Strength	No removal or split of the termination or other defects shall occur.	1. The test samples shall be soldered to the board 2. Push the product vertically from the side of the sample using the thrust tester. 3. Automotive electronics: 17.7N, $60\text{S} \pm 1\text{s}$, X、Y direct. 

● Recommended Soldering Technologies

(1) Re-flowing Profile

Preheat condition: 150~200℃/60~180sec.

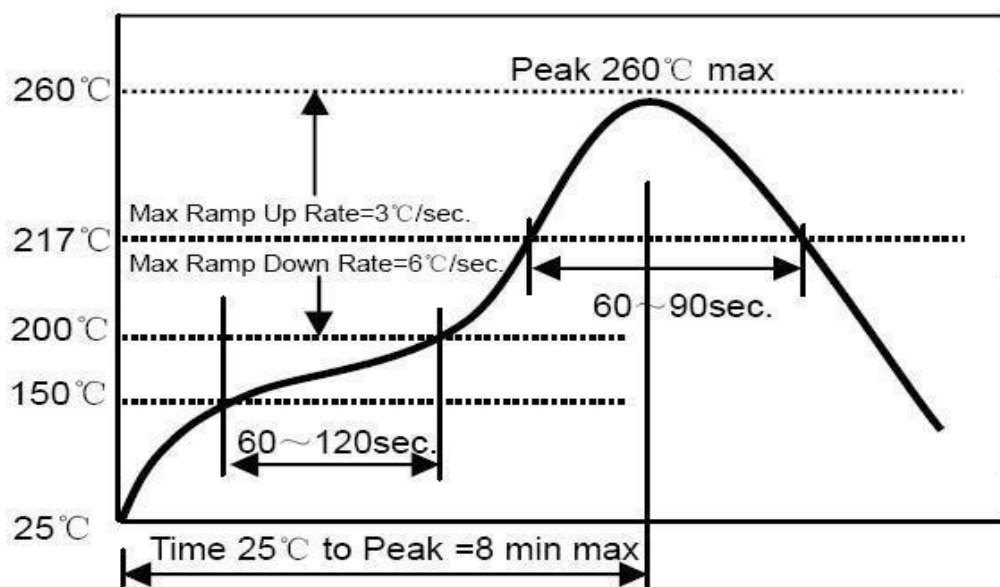
Allowed time above 217℃: 80~120sec.

Max temp: 260℃

Max time at max temp: 10sec.

Solder paste: Sn/3.0Ag/0.5Cu

Allowed Reflow time: 2x max



(2) Iron Soldering Profile

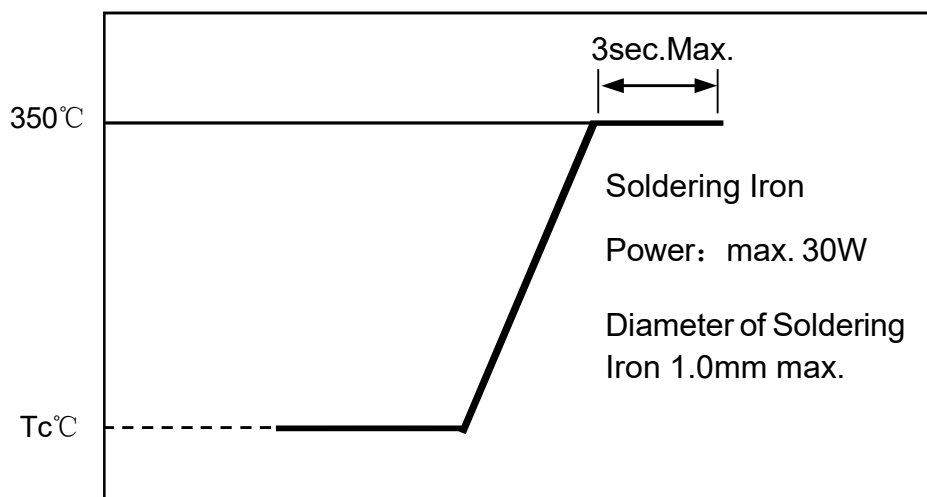
Iron soldering power: Max. 30W

Pre-heating: 150℃/60sec.

Soldering time: 3sec. Max.

Solder paste: Sn/3.0Ag/0.5Cu

Max.1 times for iron soldering



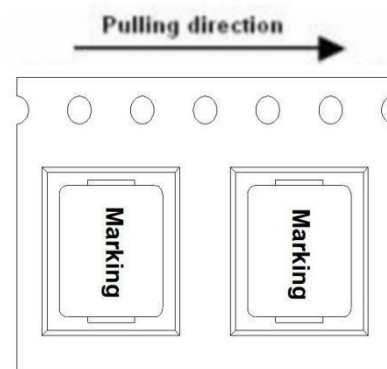
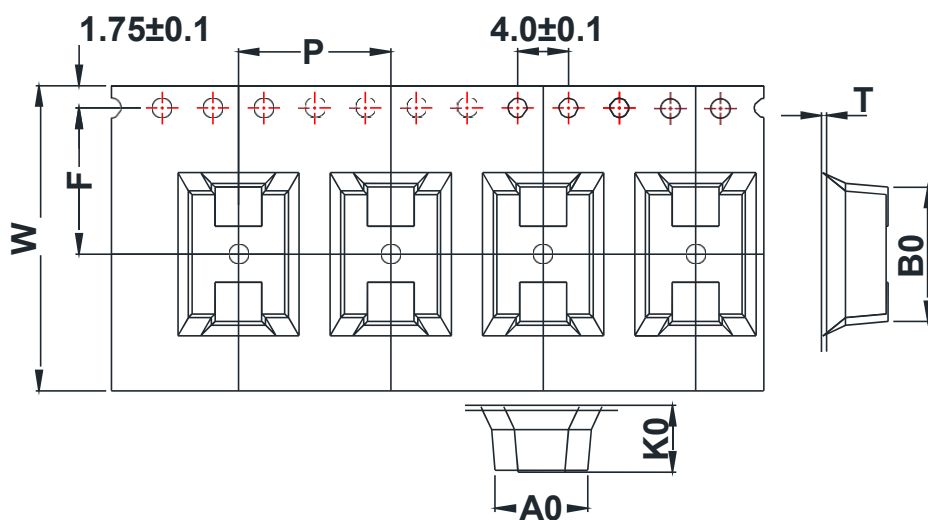
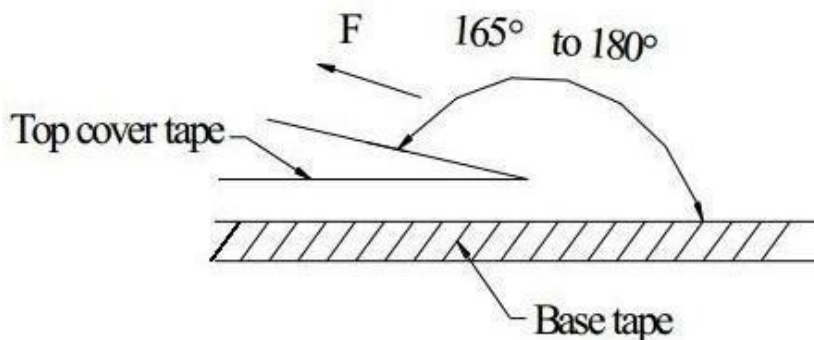
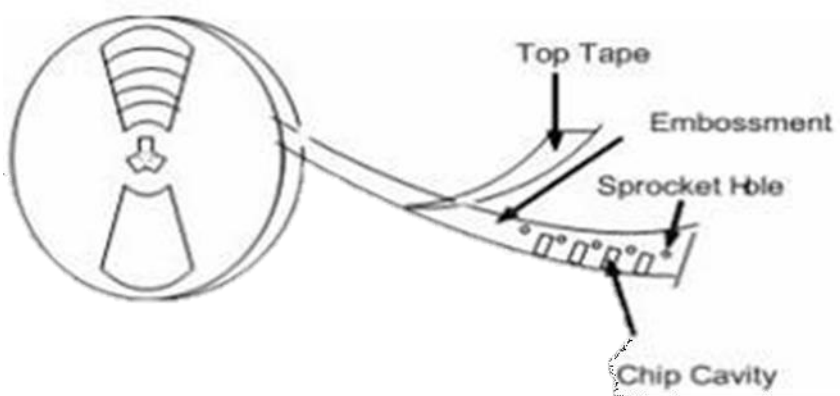
Packaging, Storage and Transportation

- Tape Packaging Dimensions (UNIT:mm)

Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



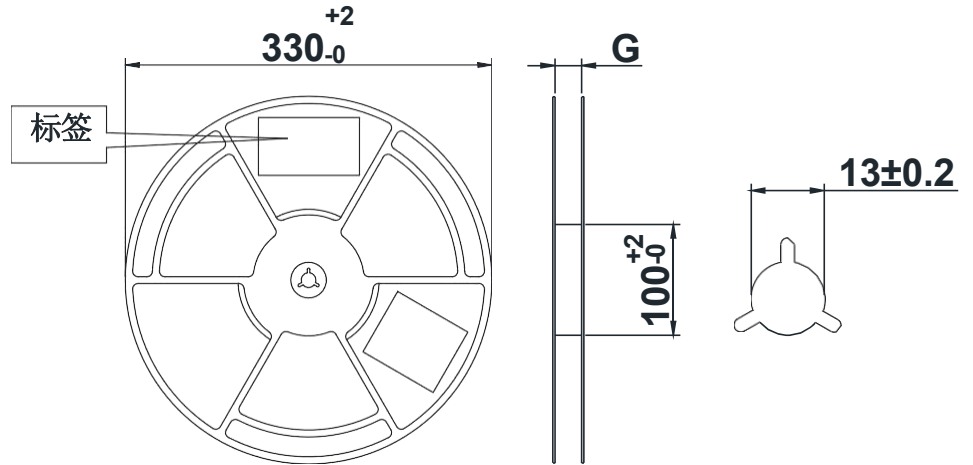
Type	Tape Packaging Dimension (mm)						
	W	P	F	A0	B0	K0	T
FPIB1063	24.00±0.30	12.00±0.10	11.50±0.10	5.95 TYP	11.10 TYP	3.05±0.10	0.35±0.05
FPIB1064	24.00±0.30	12.00±0.10	11.50±0.10	5.95 TYP	11.10 TYP	4.05±0.10	0.35±0.05
FPIB1065	24.00±0.30	12.00±0.10	11.50±0.10	5.95 TYP	11.10 TYP	5.05±0.10	0.35±0.05
FPIB1073	24.00±0.30	12.00±0.10	11.50±0.10	7.30 TYP	10.60 TYP	3.20±0.10	0.35±0.05
FPIB1074	24.00±0.30	12.00±0.10	11.50±0.10	7.30 TYP	10.60 TYP	4.20±0.10	0.40±0.05
FPIB1075	24.00±0.30	12.00±0.10	11.50±0.10	7.30 TYP	10.60 TYP	5.25±0.10	0.40±0.05
FPIB1084	24.00±0.30	12.00±0.10	11.50±0.10	8.20 TYP	12.10 TYP	4.30±0.10	0.40±0.05
FPIB1085	24.00±0.30	12.00±0.10	11.50±0.10	8.20 TYP	12.10 TYP	5.30±0.10	0.40±0.05
FPIB1087	24.00±0.30	16.00±0.10	11.50±0.10	8.20 TYP	12.10 TYP	7.20±0.10	0.40±0.05
FPIB1174	24.00±0.30	12.00±0.10	11.50±0.10	7.60 TYP	11.70 TYP	4.20±0.10	0.40±0.05
FPIB1175	24.00±0.30	12.00±0.10	11.50±0.10	7.60 TYP	11.70 TYP	5.20±0.10	0.40±0.05
FPIB130830	24.00±0.30	12.00±0.10	11.50±0.10	8.35 TYP	13.55 TYP	3.25±0.10	0.30±0.05
FPIB130840	24.00±0.30	12.00±0.10	11.50±0.10	8.35 TYP	13.55 TYP	4.30±0.10	0.35±0.05
FPIB130850	24.00±0.30	12.00±0.10	11.50±0.10	8.40 TYP	13.60 TYP	5.30±0.10	0.35±0.05
FPIB1685	32.00±0.30	16.00±0.10	14.20±0.10	9.10 TYP	17.60 TYP	5.40 TYP	0.40±0.10
FPIB1075D	24.00±0.30	12.00±0.10	11.50±0.10	7.30 TYP	10.60 TYP	5.25±0.10	0.40±0.05
FPIB1076D	24.00±0.30	12.00±0.10	11.50±0.10	7.30 TYP	10.60 TYP	6.25±0.10	0.40±0.05
FPIB1274	24.00±0.30	12.00±0.10	11.50±0.10	7.30 TYP	12.70 TYP	4.10±0.10	0.35±0.05
FPIB1275	24.00±0.30	12.00±0.10	11.50±0.10	7.30 TYP	12.70 TYP	5.10±0.10	0.35±0.05
FPIB1384	24.00±0.30	12.00±0.10	11.50±0.10	8.30±0.30	13.6±0.30	4.20±0.30	0.35±0.10
FPIB1385	24.00±0.30	12.00±0.10	11.50±0.10	8.30±0.30	13.6±0.30	5.20±0.30	0.35±0.10

● Reel Dimensions (UNIT:mm)

Label

Label on the reel

- Customer's part Number
- Lot Number
- Quantity
- date code



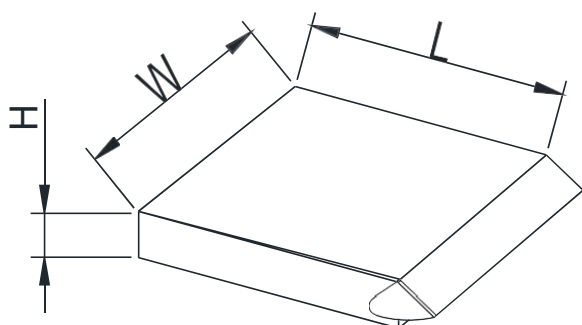
Type	Reel	Qty./Size	Type	Reel	Qty./Size
	G	pcs/reel		G	pcs/reel
FPIB1063	24.5 ± 0.20	1000	FPIB130830	24.5 ± 0.20	1000
FPIB1064	24.5 ± 0.20	1000	FPIB130840	24.5 ± 0.20	1000
FPIB1065	24.5 ± 0.20	800	FPIB130850	24.5 ± 0.20	800
FPIB1073	24.5 ± 0.20	1000	FPIB1685	32.5 ± 0.20	500
FPIB1074	24.5 ± 0.20	800	FPIB1075D	24.5 ± 0.20	500
FPIB1075	24.5 ± 0.20	500	FPIB1076D	24.5 ± 0.20	500
FPIB1084	24.5 ± 0.20	1000	FPIB1274	24.5 ± 0.20	800
FPIB1085	24.5 ± 0.20	800	FPIB1275	24.5 ± 0.20	800
FPIB1087	24.5 ± 0.20	500	FPIB1384	24.5 ± 0.20	1000
FPIB1174	24.5 ± 0.20	1000	FPIB1385	24.5 ± 0.20	800
FPIB1175	24.5 ± 0.20	800			

● Tape Packaging Box Dimension (mm)

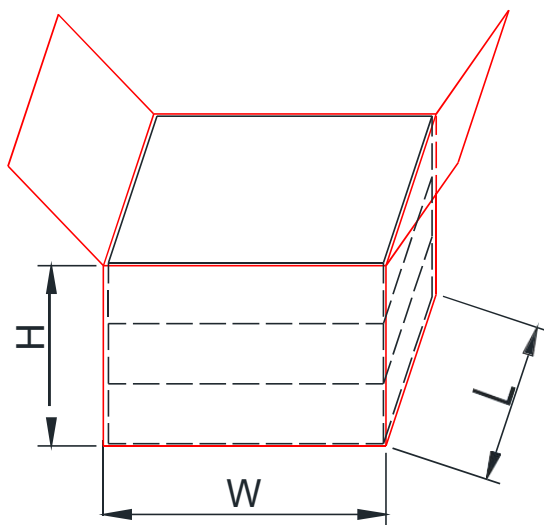
Label

Shipping Label

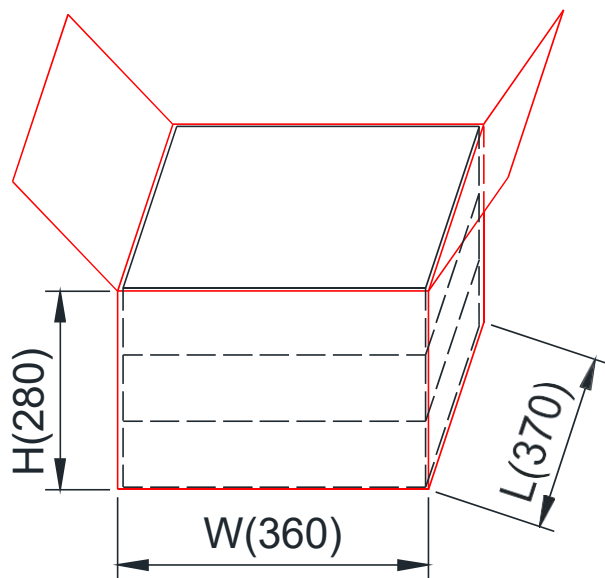
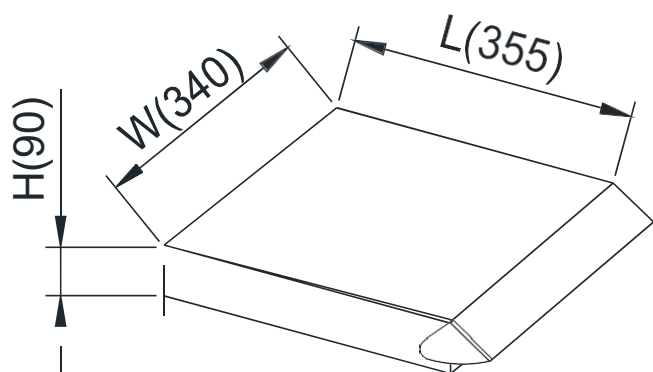
- Customer's part Number
- Manufacturer's part Number
- Quantity
- date code



2 Reel in Inner Small Box



3 Inner Box in outer Large Box



Type	Inner Small Box Dimension (mm)			Packing Quantity		outer box Dimension (mm)			Packing Quantity	
	L	W	H	reel	pcs	L	W	H	Inner box	pcs
FPIB1063	355	340	90	2	2000	370	360	280	3	6000
FPIB1064	355	340	90	2	2000	370	360	280	3	6000
FPIB1065	355	340	90	2	1600	370	360	280	3	4800
FPIB1073	355	340	90	2	2000	370	360	280	3	6000
FPIB1074	355	340	90	2	1600	370	360	280	3	4800
FPIB1075	355	340	90	2	1000	370	360	280	3	3000
FPIB1084	355	340	90	2	2000	370	360	280	3	6000
FPIB1085	355	340	90	2	1600	370	360	280	3	4800
FPIB1087	355	340	90	2	1000	370	360	280	3	3000
FPIB1174	355	340	90	2	2000	370	360	280	3	6000
FPIB1175	355	340	90	2	1600	370	360	280	3	4800
FPIB130830	355	340	90	2	2000	370	360	280	3	6000
FPIB130840	355	340	90	2	2000	370	360	280	3	6000
FPIB130850	355	340	90	2	1600	370	360	280	3	4800
FPIB1685	355	340	51	1	500	370	360	280	5	2500
FPIB1075D	355	340	90	2	1000	370	360	280	3	3000
FPIB1076D	355	340	90	2	1000	370	360	280	3	3000
FPIB1274	355	340	90	2	1600	370	360	280	3	4800
FPIB1275	355	340	90	2	1600	370	360	280	3	4800
FPIB1384	355	340	90	2	2000	370	360	280	3	6000
FPIB1385	355	340	90	2	1600	370	360	280	3	4800