



SPECIFICATION FOR APPROVAL

Customer:			
Customer P/N:			
Drawing No:			
Quantity:	Pcs. Date :		
Chilisin P/N:	BPCJFS070738150MAE		

Automotive Grade Inductor

Halogen Free RoHS Compliant REACH Compliant Lead Free Solders AEC-Q200

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Drawn by Checked by Approved by Jay Marco Vincent





REVISIONS

		IVEVIOR				
REV.	Description	Date	Approvaled by	Checked by	Checked by	Prepared by
00	Issue	2022.08.22	Vincent	Marco	Hank	Jay

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- 1 Scope: This specification applies to the Pb Free high current type SMD inductors
- 2 Part Numbering:

B PCJ FS 070738 150 M AE

- ① ②
- 3
- 4
- **(5) (6) (7)**
- ① Grade Code
- 2 Product Code
- **3 Control Code**
- **4** Dimensions Code
- **⑤ Inductance Code**
- **® Tolerance Code**
- ⑦ Inner Control Code

3 Rating:

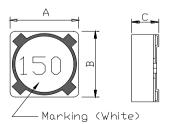
Operating Temperature: -40° C ~ 125° C (Including self - temperature rise)

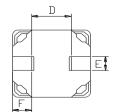
Storage Temperature: -40° C ~ 125° C

4 Standard Testing Condition:

	Unless otherwise specified	In case of doubt
Temperature Ordinary Temperature(15 to 35℃)		20 to 30°C
Humidity	Ordinary Humidity(25 to 85% RH)	50 to 80 %RH

5 Configuration and Dimensions:





A: 7.30±0.5 mm

B: 7.30±0.5 mm

C: 3.80 Max. mm

D: 3.70 Typ. mm

E: 1.65 Typ. mm

F: 1.50 Typ. mm





6 Electrical Characteristics:

Part No.	Inductance L(µH)	Test Frequency	Resistance RDC(Ω) Max.	Rated DO	C Current Irms(A)	Tolerance	Marking
BPCJFS0707382R2∐AE	2.2	100kHz/0.25V	50 m	5.00	3.10	Т	2R2
BPCJFS0707384R7∐AE	4.7	100kHz/0.25V	35 m	3.90	2.90	M,T	4R7
BPCJFS0707386R8⊡AE	6.8	100kHz/0.25V	44 m	2.75	2.50	M,T	6R8
BPCJFS070738150□AE	15	100kHz/0.25V	0.10	2.50	2.00	M,T	150

NOTE: tolerance M(±20%),T(±30%)

1.Isat : Based on inductance change (\triangle L/Lo : drop 10% Typ.) @ambient Temperature : 25 $^{\circ}$ C

2.Irms: Based on temperature rise (△T: 40°C Typ.)3.Rated DC Current: The less value which is Isat or Irms.





ELECTRICAL

TEST ITEM	SPECIFICATION	TEST DETAILS
Temperature	∆L/L20°C ≦±10%	The test shall be performed after the sample has stabilized in
characteristics	0~2000 ppm/℃	an ambient temperature of -20 to +85℃,and the value
		calculated based on the value applicable in a normal
		temperature and narmal humidity shall be △L/L20°C ≦±10%.

MECHANICAL

TEST ITEM	SPECIFICATION	TEST DETAILS
Substrate bending	∆L/Lo≦±5%	The sample shall be soldered onto the printed circuit board
		in figure 1 and a load applied unitil the figure in the arrow
	There shall be	direction is made approximately 3mm.(keep time 30 seconds)
	no mechanical	PCB dimension shall the page 7/9
	damage or elec-	F(Pressurization)
	trical damage.	\Box
		R5 45±2 45±2
		10 20 R340
		PRESSURE ROD figure-1

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MECHANICAL

TEST ITEM		SPECIFICATION					
/ibration	∆L/Lo≦±5%	The sample shall be soldered onto the printed circuit board					
		and when a vibration having an amplitude of 1.52mm					
	There shall be	and a frequency of from 10 to 55Hz/1 minute repeated should					
	no mechanical	be applied to the 3 directions (X,Y,Z) for 2 hours each.					
	damage.	(A total of 6 hours)					
Solderability	New solder	Flux (rosin, isopropyl alcohol{JIS-K-1522}) shall be coated					
	More than 90%	over the whole of the sample before hard, the sample shall					
		then be preheated for about 2 minutes in a temperature of					
		130~150℃ and after it has been immersed to a depth 0.5mm					
		below for 3±0.2 seconds fully in molten solder M705 with					
		a temperature of 245±5℃.					
		More than 90% of the electrode sections shall be couered					
		with new solder smoothly when the sample is taken out of					
		the solder bath.					
Resistance to	There shall be	Temperature profile of reflow soldering					
Soldering heat	no damage or						
reflow soldering)	problems.	Temperature					
		Ramp up: Ramp down:					
		3°C/sec. max. 6°C/sec. max.					
		260°C					
		217°C					
		160°C ↔					
		Soldering					
		260°C ±3 °C 10 - 30 sec.					
		25°C					
		← Preheat → ← Liquidus → 150-200°C >217°C					
		60-120 sec. 60-150 sec.					
		The appairment shall be present the section of the					
		The specimen shall be passed through the reflow oven with the					
		condition shown in the above profile for 1 time.					
		The specimen shall be stored at standard atmospheric conditions					
		for 1 hour, after which the measurement shall be made.					

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ENVIRONMENT CHARACTERISTICS

TEST ITEM				SPECIFICATION				
High temperature	∆L/Lo≦±5%	The sam	The sample shall be left for 96±4 hours in an atmospere with					
storage		a temperature of 125℃ and a normal humidity.						
	There shall be	Upon co	mplet	tion of the measurement	shall be made after the			
	no mechanical	sample I	nas be	een left in a normal temp	perature and normal			
	damage.	humidity	for 1	hour.				
Low temperature	∆L/Lo≦±5%	The sam	ple sl	nall be left for 96±4 hour	s in an atmosphere with			
storage		a tempe	rature	of -40±3℃.				
	There shall be	Upon co	mplet	ion of the test, the meas	surement shall be made			
	no mechanical	after the	samp	ole has been left in a nor	mal temperature and			
	damage.	normal h	numid	ity for 1 hour.				
Change of	∆L/Lo≦±5%	The sam	ple sl	hall be subject to 5 cont	nuos cycles, such as sho	wn		
temperature		in the tal	ble 2 l	below and then it shall b	e subjected to standard			
	There shall be	be atmospheric conditions for 1 hour, after which measu						
	no other dama-	shall be made.						
	ge of problems							
		table 2						
				Temperature	Duration			
			1	−40±3 ℃	30 min.			
			•	(Themostat No.1)	30 mm.	1		
			2	Standard	No.1→No.2			
			2	atmospheric	NO.1→NO.2	0.2		
			3	125±2℃	30 min.			
			3	(Themostat No.2)	SU IIIII.			
			4	Standard	No.2→No.1			
			4	atmospheric	NO.2→NO.1			
Moisture storage	∆L/Lo≦±5%	The sample shall be left for 96±4 hours in a temperature of						
		40±2℃ and a humidity(RH) of 90~95%.						
	There shall be	Upon completion of the test, the measurement shall be made						
	no mechanical	after the sample has been left in a normal temperature and						
	damage.	normal humidity more than 1 hour.						

Tool conditions

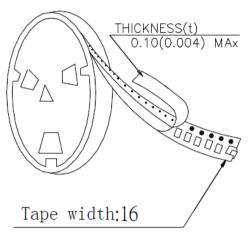
The sample shall be reflow soldered onto the printed circuit board in every test.





7 Packaging:

7.1 Packaging -Cover Tape

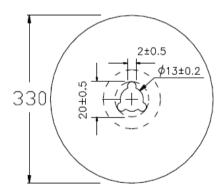


7.2 Packaging Quantity

TYPE	PCS/REEL	
BPCJFS070738	1000	

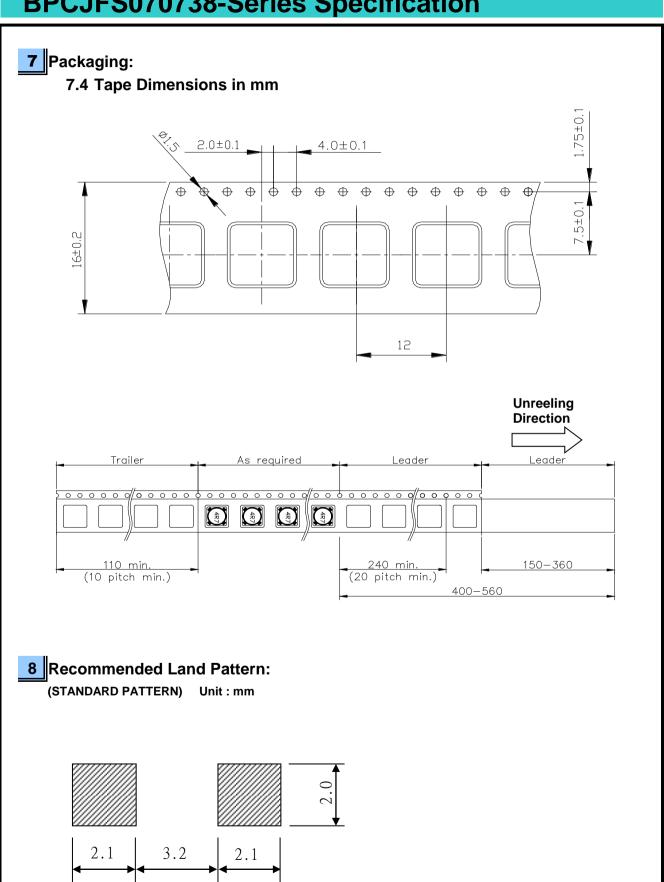
7.3 Reel Dimensions

Unit: mm









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9 Note:

- 1. Please make sure that your product has been evaluated and confirmed against your specifications when our product is mounted to your product.
- 2. Do not knock or drop.
- 3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose,under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
- 4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)
- 5. The moisture sensitivity level (MSL) of products is classified as level 1.

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单击下面可查看定价,库存,交付和生命周期等信息

>>CHILISIN(奇力新)