



PRODUCT IDENTIFICATION

JRPI	0804	V	-	220	M
Type	Size	Vehicle			Tol.
				Inductance	

FEATURES

1. Carbonyl Powder.
2. Compact design.
3. High current , low DCR , high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature -55 ~ +125°C (Including self - temperature rise)

APPLICATIONS

Note PC power system , incl. IMVP-6
DC/DC converter .

Marking and Date code:

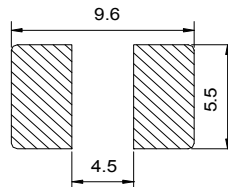
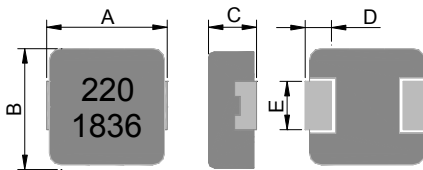
Marking ex:22(μH) → 220

Date code

18 36 → year and weekly

DIMENSIONS (mm)

Recommend PC Board Pattern



Note:

1. PCB layout is referred to standard IPC-7351B
2. The above PCB layout reference only
3. Recommend solder paste thickness at 0.15mm and above.

印字:黑色220及D/C 1836 (18年,24週期)(依實際生產日期而定)

Part No.	Size (mm)				
	A	B	C	D	E
JRPI 0804V	8.8 ± 0.4	8.4 ± 0.3	3.8 ± 0.2	1.3 ± 0.3	5.0 ± 0.3

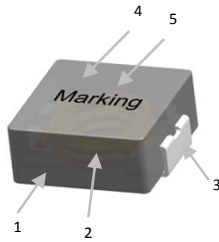
SERIES LIST

No.	Part No.	L (μH)	TOL. (%)	RDC (mΩ)		I sat (A) Typ.	I rms (A) Typ.
				Typ.	Max.		
1	JRPI 0804V-R22M	0.22	±20	1.6	1.76	60	31
2	JRPI 0804V-R33M	0.33	±20	2.0	2.20	55	30
3	JRPI 0804V-R47M	0.47	±20	2.6	2.86	40	28
4	JRPI 0804V-R56M	0.56	±20	2.7	2.97	38	25
5	JRPI 0804V-R68M	0.68	±20	3.1	3.41	36	23
6	JRPI 0804V-R82M	0.82	±20	3.7	4.10	32	21
7	JRPI 0804V-1R0M	1.00	±20	4.5	4.95	29	18
8	JRPI 0804V-1R5M	1.50	±20	6.6	7.30	27	17
9	JRPI 0804V-2R2M	2.20	±20	10.8	11.9	25	16
10	JRPI 0804V-3R3M	3.30	±20	15	16.5	22	14
11	JRPI 0804V-4R7M	4.70	±20	26.8	29.5	19	8.5
12	JRPI 0804V-5R6M	5.60	±20	30	35	17	7.5
13	JRPI 0804V-6R8M	6.80	±20	40	46	16.5	6.5
14	JRPI 0804V-8R2M	8.20	±20	44	51	16	6.0
15	JRPI 0804V-100M	10.0	±20	53	61	10	5.6
16	JRPI 0804V-220M	22.0	±20	100	120	8	3.9

Note:

1. Test Frequency: 100KHz /1V
2. All test data referenced to 25°C ambient
3. Saturation Current (Isat) will cause L0 to drop approximately 30%.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C
5. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
6. Irms Testing : Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components. Therefore temperature rise should be verified in application conditions.
7. Rated DC Current : The less value which is Irms or Isat

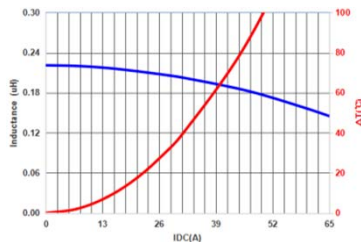
Materials



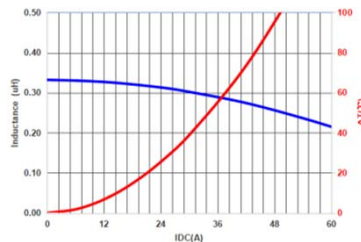
NO	Items	Materials
1	Core	Carbonyl Powder
2	Wire	Polyester Wire or equivalent
3	Clip	100% Pb free solder(Ni+Sn---Plating)
4	paint	Epoxy resin
5	Ink	Halogen-free ketone

TYPICAL PERFORMANCE CURVES

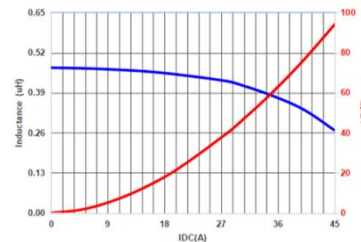
JRPI 0804V-R22



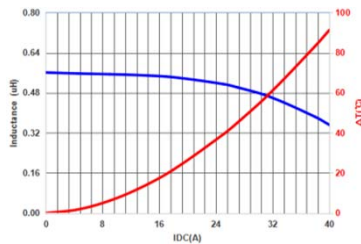
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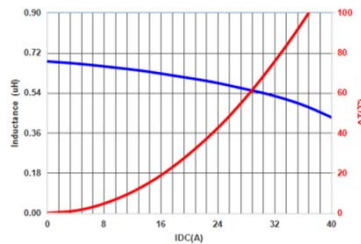
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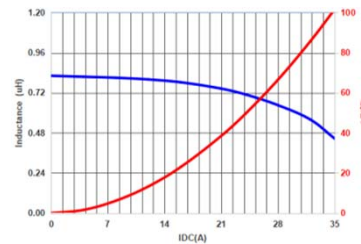
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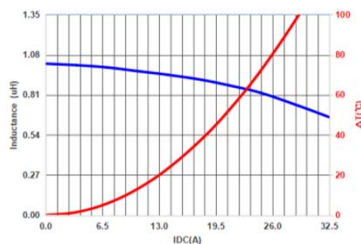
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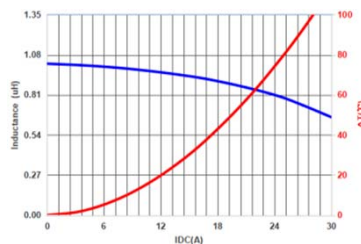
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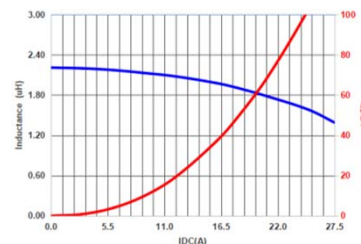
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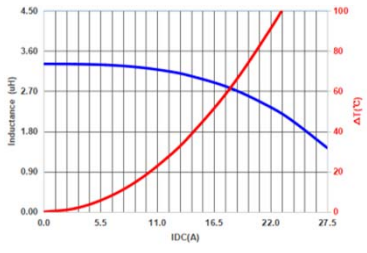
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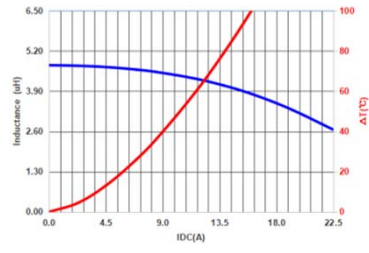
JRPI 0804V-2R2



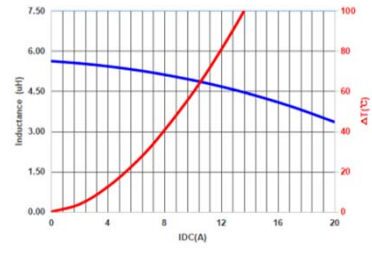
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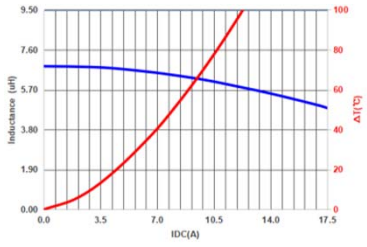
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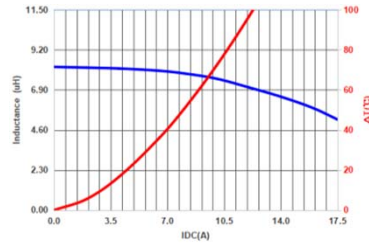
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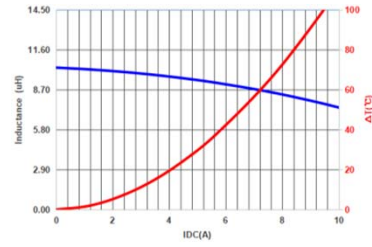
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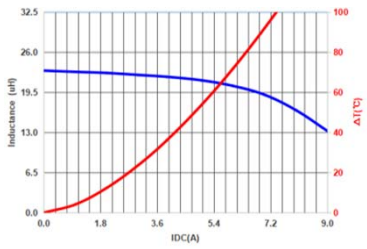
JRPI 0804V-8R2



JRPI 0804V-100

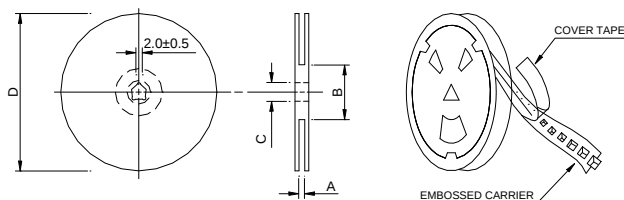


JRPI 0804V-220



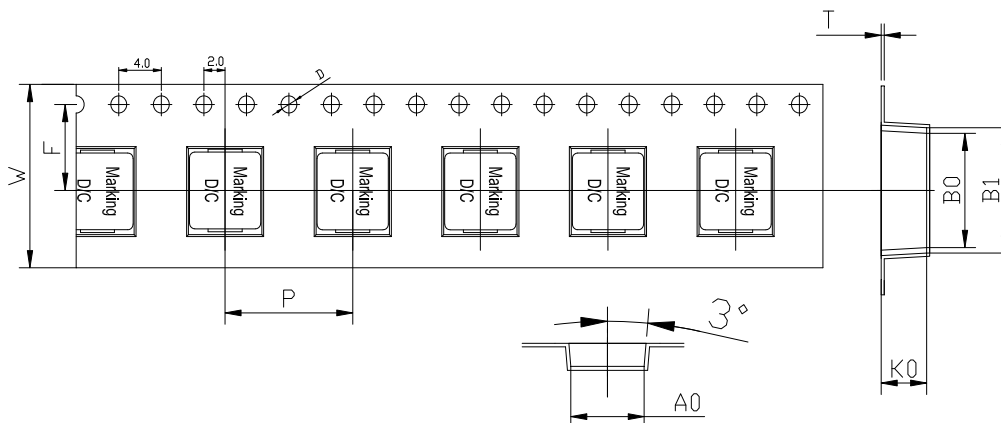
Packaging Information

• Reel Dimension



Type	A(mm)	B(mm)	C(mm)	D(mm)
13"x24mm	24.4+2/-0	100±2	13+0.5/-0.2	330

• Tape Dimension

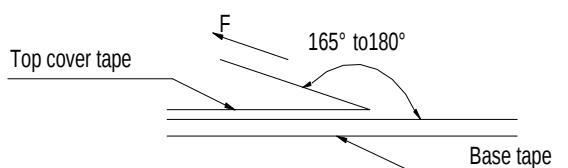


Ao(mm)	Bo(mm)	B1(mm)	Ko(mm)	P(mm)	W(mm)	F(mm)	t(mm)	D(mm)
8.9±0.1	9.0±0.1	10.1±0.1	4.5±0.1	16.0±0.1	24±0.3	11.5±0.1	0.35±0.05	1.5±0.1

• Packaging Quantity

Size	Reel	Inner box	Carton
JRPI 0804V	800	1600	6400

• Tearing Off Force



The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI/EIA-481-D-2008 of 4.11 standard)

Tearing Speed mm	Room Temp. (°C)	Room Humidity (%)	Room atm (hPa)
300±10%	5~35	45~85	860~1060

■ Application Notice

- Storage Conditions(component level)

To maintain the solderability of terminal electrodes:

1. Products meet IPC/JEDEC J-STD-020E standard-MSL, level 1.
2. Temperature and humidity conditions: Less than 40°C and 60% RH.
3. Recommended products should be used within 12 months form the time of delivery.
4. The packaging material should be kept where no chlorine or sulfur exists in the air.

- Transportation

1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
3. Bulk handling should ensure that abrasion and mechanical shock are minimized.