



PRODUCT IDENTIFICATION

JRPI	1707	PV	-	1R5	M
Type	Size	Control		Inductance	Tol.

FEATURES

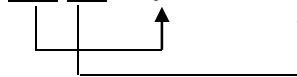
1. Shielded construction.
2. Capable of corresponding high frequency.
3. Low loss realized with low DCR.
4. High performance (Isat) realized by metal dust core.
5. Ultra low buzz noise, due to composite construction.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200
8. Operating temperature -55~+155°C
(Including self - temperature rise)

Marking and Date code:

Marking ex:1.5(μH) → 1R5

Date code

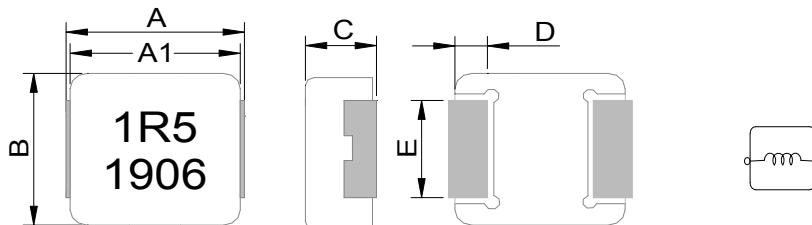
19 06 → year and weekly



APPLICATIONS

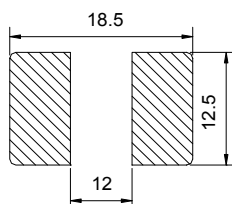
1. DC/DC converters in distributed power systems.
2. DC/DC converter for Field Programmable Gate Array(FPGA).
3. Battery powered devices.
4. Thin type on-board power supply module for exchanger.
5. VRM for server.
6. High current, low profile POL converters.
7. PDA/notebook/desktop/server and battery powered devices.

DIMENSIONS (mm)



印字:黑色1R5及D/C 1906 (19年,06週期)(依實際生產日期而定)

Recommend PC Board Pattern



Note:

1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.17mm and above.

Part No.	Size (mm)					
	A	A1	B	C	D	E
JRPI 1707PV	17.8 ± 0.5	16.9 ± 0.3	16.9 ± 0.3	6.7 ± 0.3	2.3 ± 0.3	11.9 ± 0.3

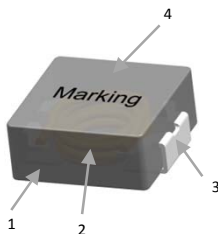
SERIES LIST

No.	Part No.	L	TOL.	RDC		Isat		Irms	
		(μ H)	(%)	Typ.	Max.	Typ.	Max.	Typ.	Max.
1	JRPI 1707PV-R47M	0.47	± 20	0.70	0.90	110	100	60	55
2	JRPI 1707PV-R56M	0.56	± 20	0.81	0.97	80	70	56	50
3	JRPI 1707PV-1R0M	1.00	± 20	1.06	1.30	50	45	46	42
4	JRPI 1707PV-1R5M	1.50	± 20	1.50	1.80	46	40	39	35
5	JRPI 1707PV-1R8M	1.80	± 20	1.70	2.00	40	34	35	32
6	JRPI 1707PV-2R0M	2.00	± 20	1.75	2.10	37	33	33	31
7	JRPI 1707PV-2R2M	2.20	± 20	1.80	2.20	35	32	32	30
8	JRPI 1707PV-3R3M	3.30	± 20	2.70	3.30	32	29	30	28
9	JRPI 1707PV-4R0M	4.00	± 20	3.50	4.30	30	27	29	27
10	JRPI 1707PV-4R7M	4.70	± 20	3.70	4.50	29	26	28	26
11	JRPI 1707PV-6R8M	6.80	± 20	6.00	7.20	25	22	24	22
12	JRPI 1707PV-100M	10.0	± 20	9.20	10.6	22	19	21	19
13	JRPI 1707PV-150M	15.0	± 20	12.8	15.5	16	14	16	14
14	JRPI 1707PV-180M	18.0	± 20	16.5	20.0	14	12	14.5	12.5
15	JRPI 1707PV-220M	22.0	± 20	20.5	24.0	13.5	11.5	13.5	11.5
16	JRPI 1707PV-330M	33.0	± 20	32.0	37.0	12.0	10.0	12.0	10.0
17	JRPI 1707PV-470M	47.0	± 20	40.0	47.0	9.5	8.0	9.5	8.0
18	JRPI 1707PV-680M	68.0	± 20	66.0	76.0	8.5	7.2	8.0	6.5
19	JRPI 1707PV-820M	82.0	± 20	69.0	83.0	8.0	6.5	6.5	5.7
20	JRPI 1707PV-101M	100.0	± 20	90.0	105.0	6.5	5.5	6.0	5.0

Note:

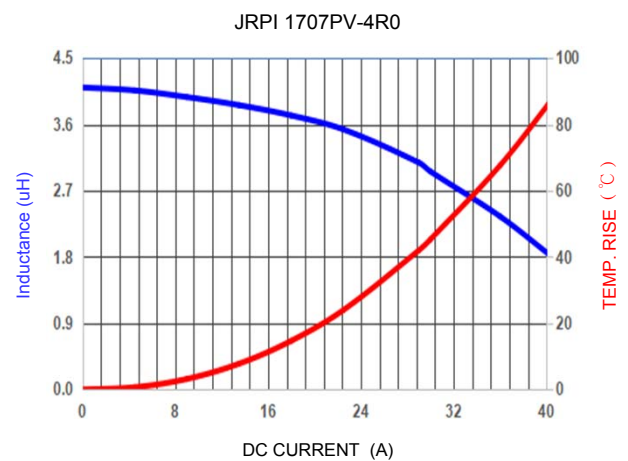
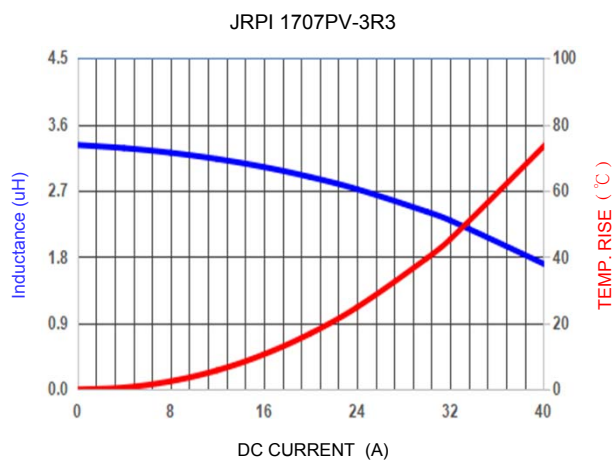
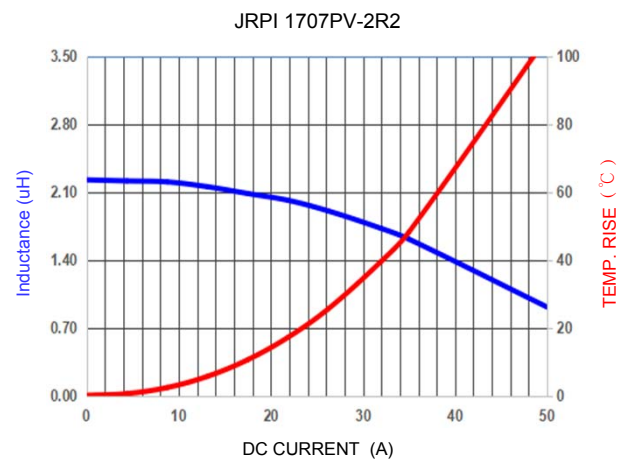
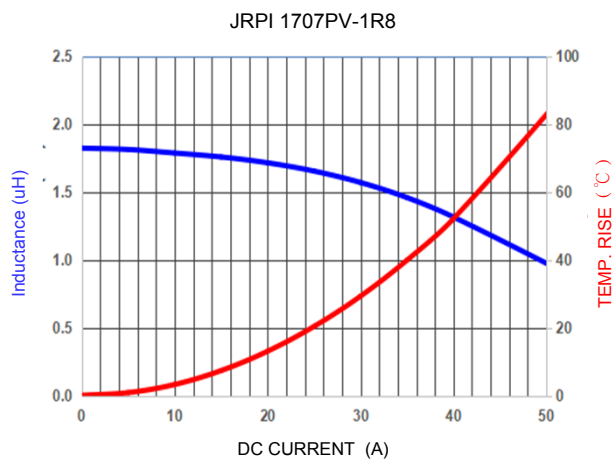
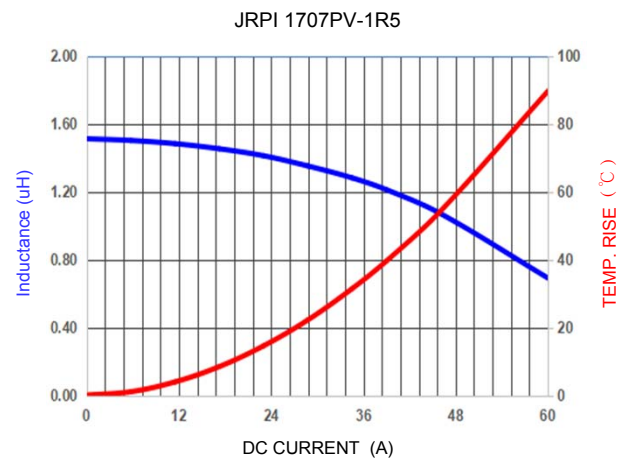
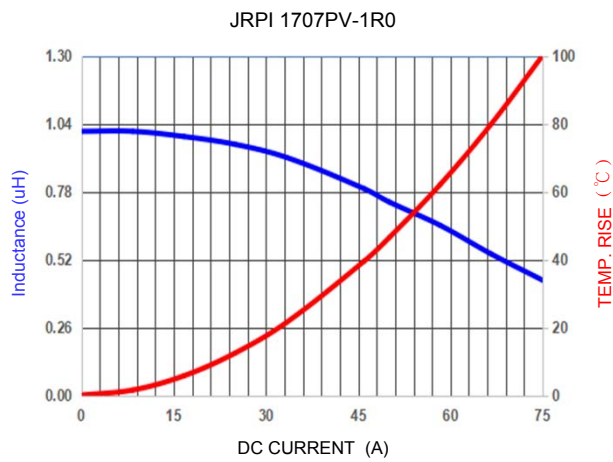
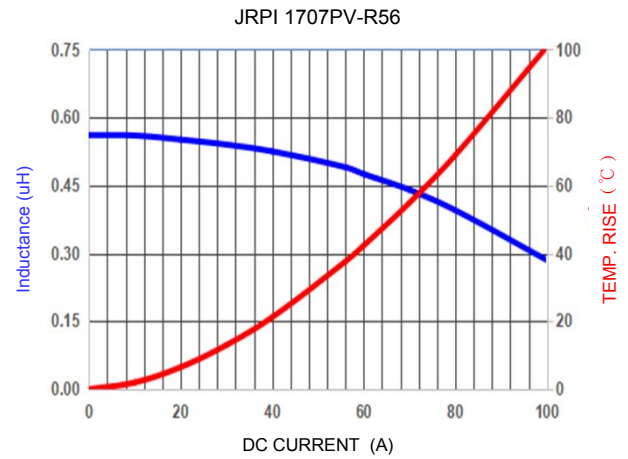
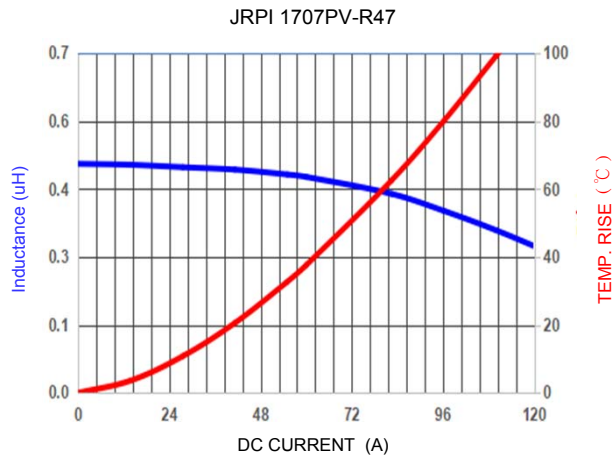
1. Test Frequency: 100KHz /1V
2. All test data referenced to 25°C ambient
3. Saturation Current (Isat) will cause L0 to drop approximately 30%.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C
5. The part temperature (ambient + temp rise) should not exceed 155°C 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. Special inquiries besides the above common used types can be met on your requirement.

Materials

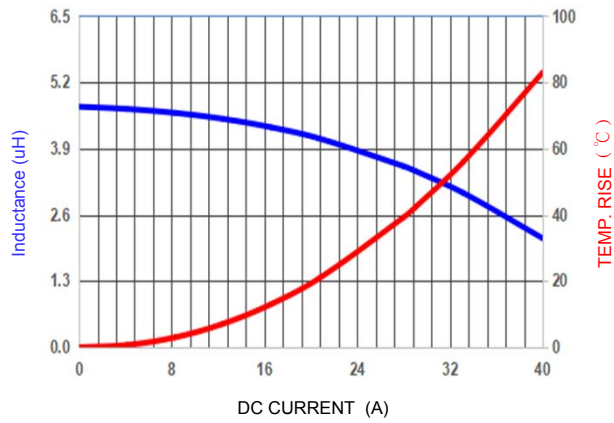


NO	Items	Materials
1	Core	Alloy Powder
2	Wire	Polyester Wire or equivalent.
3	Clip	100% Pb free solder(Ni+Sn---Plating)
4	Ink	Halogen-free ketone

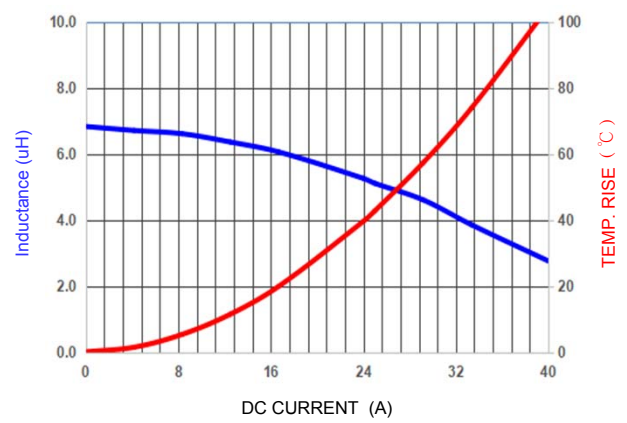
Typical Performance Curves



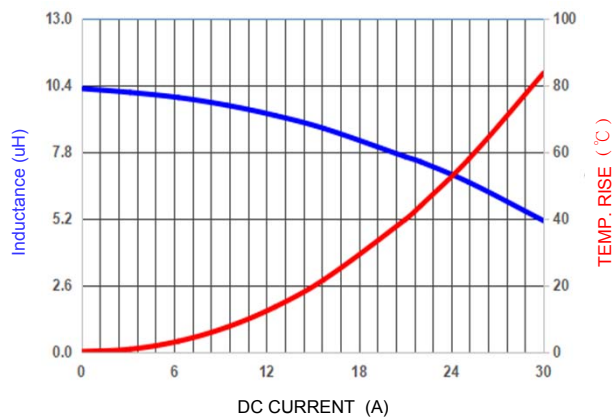
JRPI 1707PV-4R7



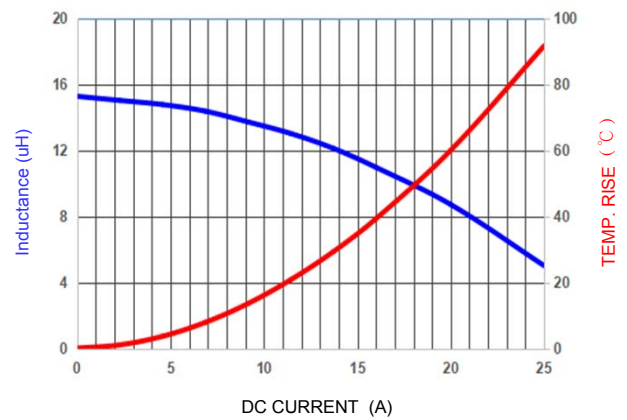
JRPI 1707PV-6R8



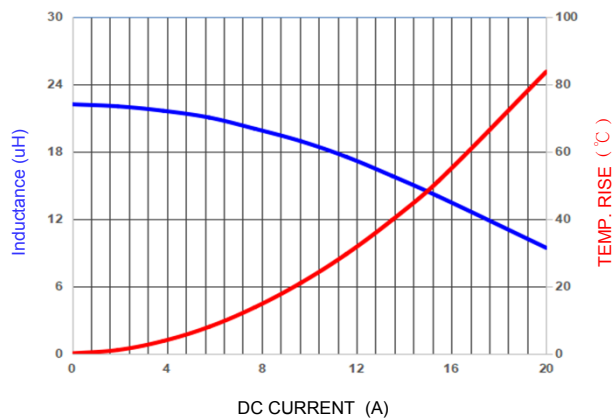
JRPI 1707PV-100



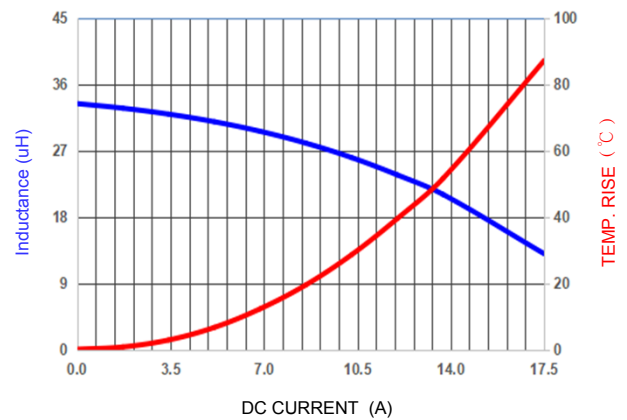
JRPI 1707PV-150



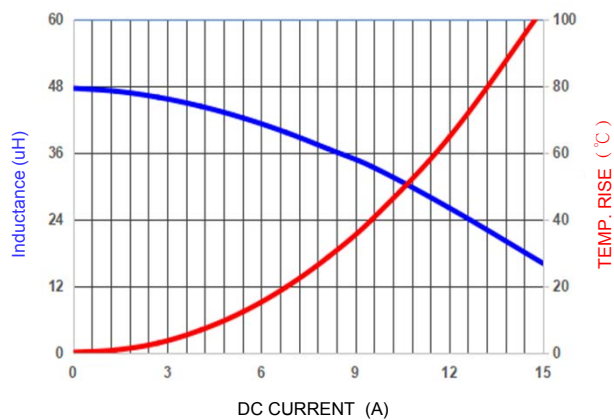
JRPI 1707PV-220



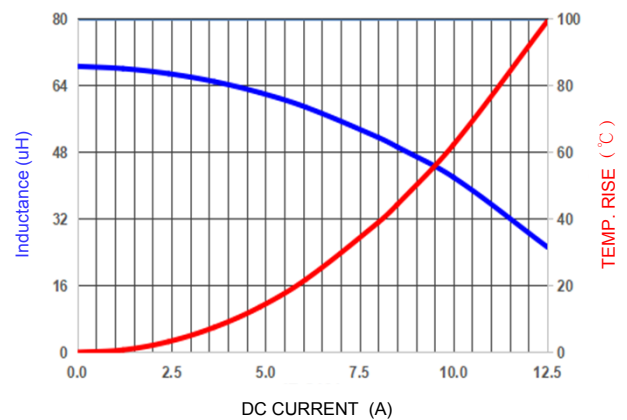
JRPI 1707PV-330

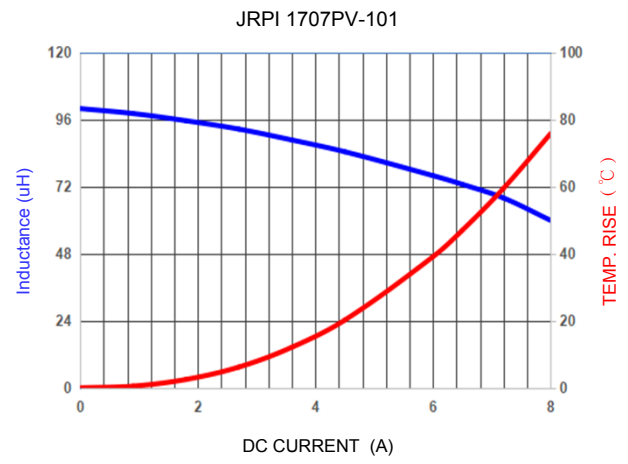
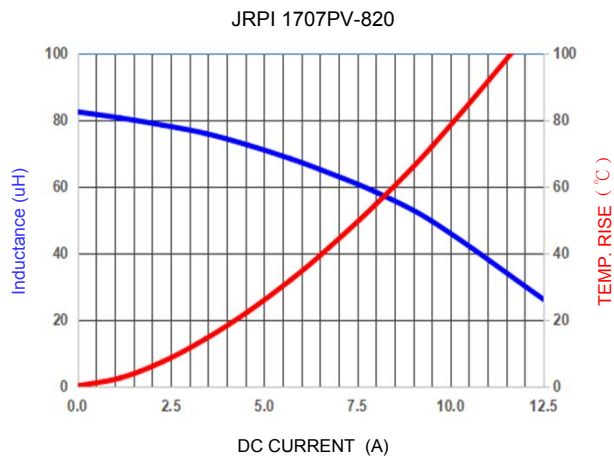


JRPI 1707PV-470



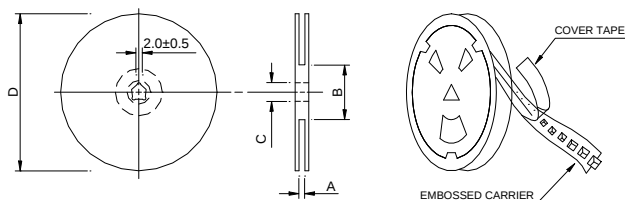
JRPI 1707PV-680





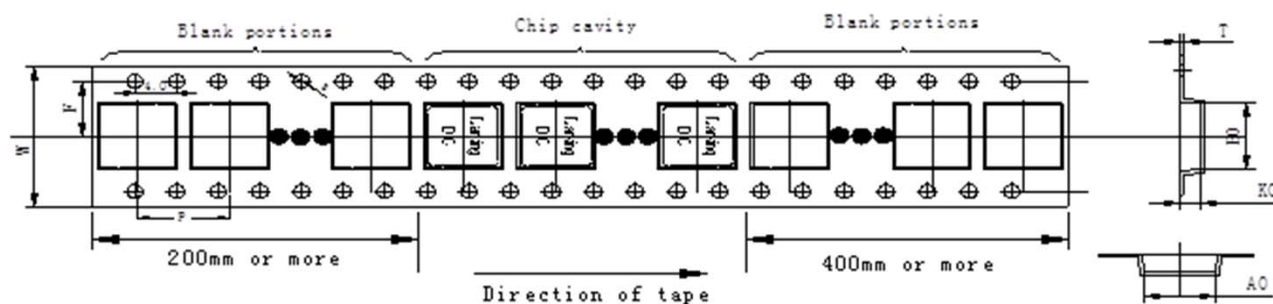
Packaging Information

• Reel Dimension



Type	A(mm)	B(mm)	C(mm)	D(mm)
13"x32mm	32.4+2/-0	100±2	13+0.5/-0.2	330

• Tape Dimension

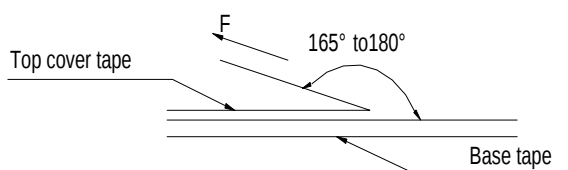


Ao(mm)	Bo(mm)	Ko(mm)	P(mm)	W(mm)	F(mm)	t(mm)	D(mm)
17.5±0.1	18.5±0.1	7.5±0.1	24±0.1	32±0.3	14.2±0.1	0.5±0.05	1.5±0.1

• Packaging Quantity

Size	Reel	Inner box	Carton
JRPI 1707PV	200	200	800

• 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-C-2003 of 4.11 standard)

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

■ Application Notice

- Storage Conditions(component level)

To maintain the solderability of terminal electrodes:

1. Products meet IPC/JEDEC J-STD-020D 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.