HCD POWER INDUCTORS :HCD0805-R-2R2JL

Applications:

Various high power inductors are superior to be high saturation for surface mounting. Application for power supply for Bluetooth, OA equipment, notebook PC, portable communication equipments, DC/DC converters, High Frequency circuit. etc.

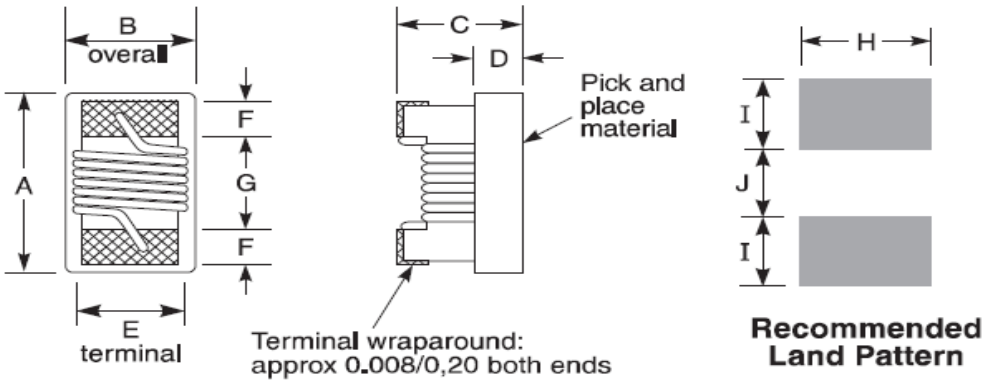


Part number

HCD 0805 - R - 2R2 J L
1 2 3 4 5

(1）Size Code	0805
(2）Packing	R=Tape and reel
(3）Inductance	2R2=2.2uH
(4）Tolerance	J=±5% K=±10% M=±20%
(5）Code	L

Dimension and Terminal Configuration



Type	A max (mm)	B max (mm)	C max (mm)	D ref (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)
0805	2.29	1.91	1.6	0.51	1.27	0.51	1.02	1.78	1.02	0.76

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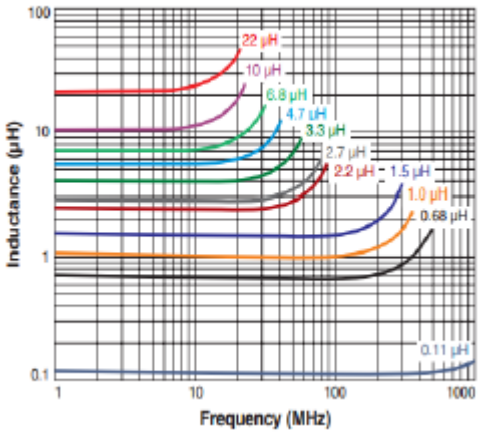
Electrical Specification

Part number	Inductance (uH)	Percent Tolerance	Qtyp (min)	SRF min (MHz)	DCR max (Ohms)	Irms (A)
HCD0805-R-2R2JL	2.2 @ 7.9MHz	5	14 @ 7.9MHz	106	0.28	1.04

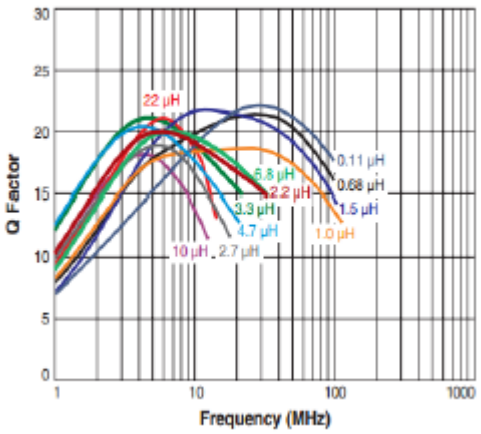
Inductance measured at 0.1 Vrms，using HEK SMD-A fixture in Agilent/HP 4286A impedance analyzer with HEK provided correlation pieces.
Q measured on Agilent/HP 4395A with Agilent/HP 16193 test fixture.
DCR measured using Agilent/HP 8753D network analyze with HEK SMD-D test fixture.
Current that causes a 15℃ temperature rise from 25℃ ambient. Because of their open construction, these parts will not saturate.
Electrical specifications at 25℃

Electrical Characteristics

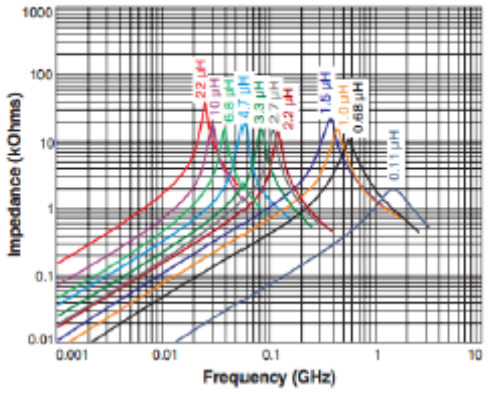
Typical L vs Frequency



Typical Q vs Frequency



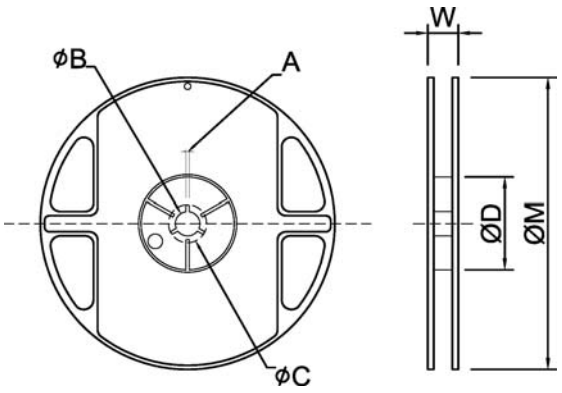
Typical Impedance vs Frequency



Taping Specifications

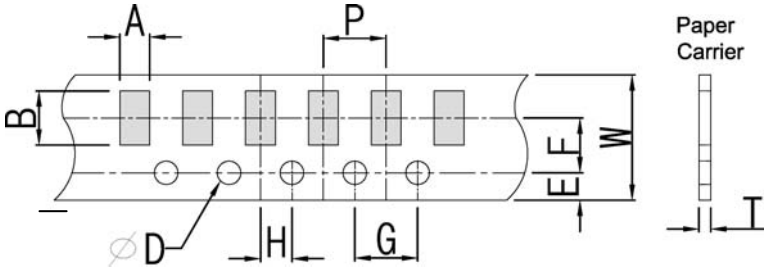
Reel and Taping Specification

Reel Specification



TYPE	SIZE		A	ϕB	ϕC	ϕD	W	ϕM
	7”	3K/Reel	2.0±0.5	13.5±1.0	21±1.0	60±1.0	11.5±2.0	178±2.0

Tapping Specification

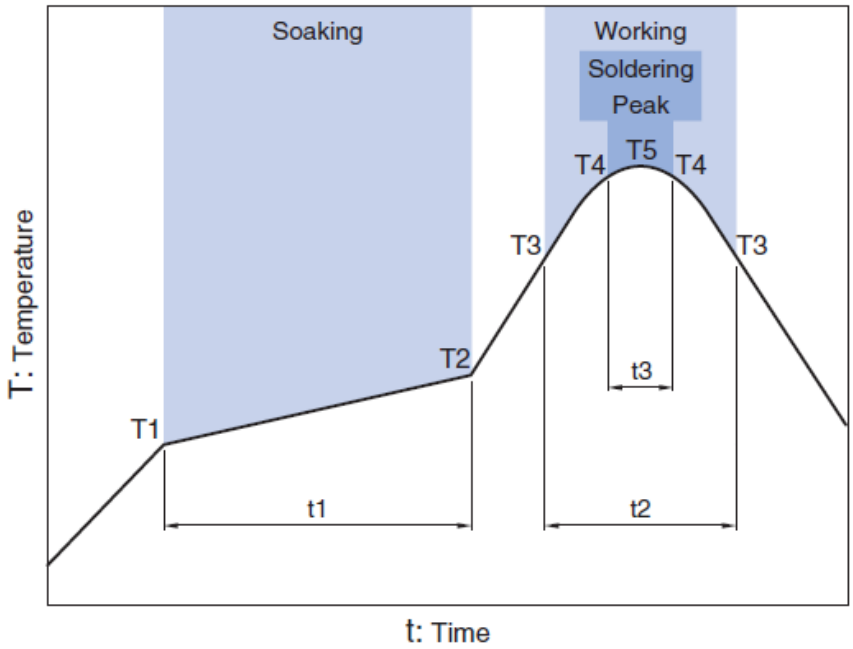


Packaging	Type	A	B	W	E	F	G	H	T	ϕD	P
	0805	2.2±0.20	3.0±0.20	8.0±0.20	1.75±0.10	3.0±0.05	4.0±0.10	2.0±0.05	0.75± 0.10	1.50 +0.10 -0	4.0±0.1

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Recommended Reflow Profile

Pb free solder



Soaking			Working		Soldering		Peak
Temp.		Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.

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