

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.

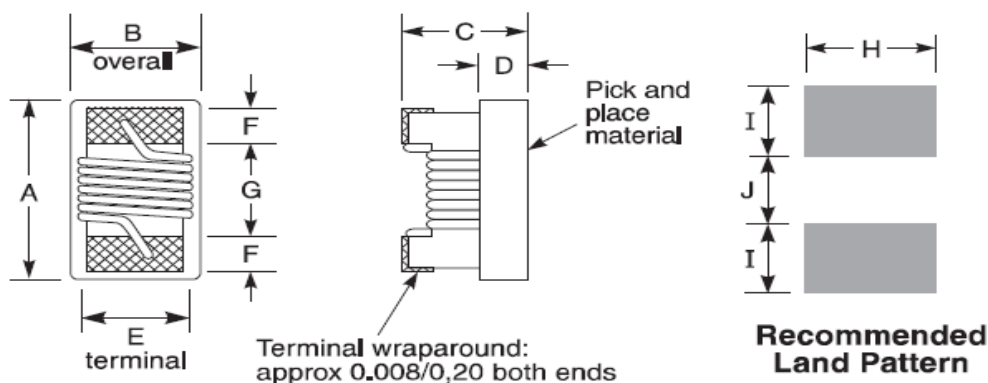
Part number

HCD 0805 - R - 1R0 J L
 1 2 3 4 5

(1) Size Code	0805(2012)
(2) Packing	R=Tape and reel
(3) Inductance	1R0=1.0uH
(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	1.3	0.51	1.27	0.51	1.02	1.78	1.02	0.76

Electrical Specification

Part number	Inductance (uH)	Percent Tolerance	Qtyp (min)	SRF min (MHz)	DCR max (Ohms)	Irms (A)
HCD0805-R-1R0JL	1.0 @ 7.9MHz	5	14 @ 7.9MHz	208	0.14	1.30

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.

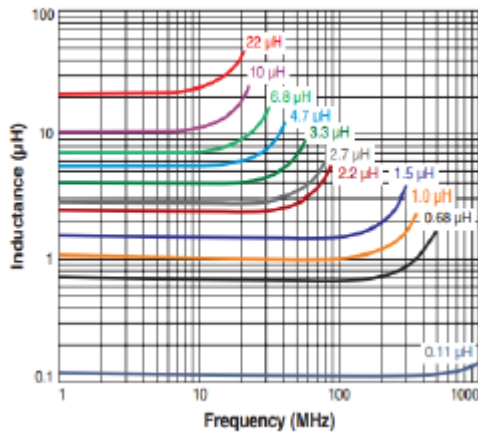
DCR measured using Agilent/HP 8753D network analyzer with HEK SMD-D test fixture.

Current that causes a 15°C temperature rise from 25°C ambient. Because of their open construction, these parts will not saturate.

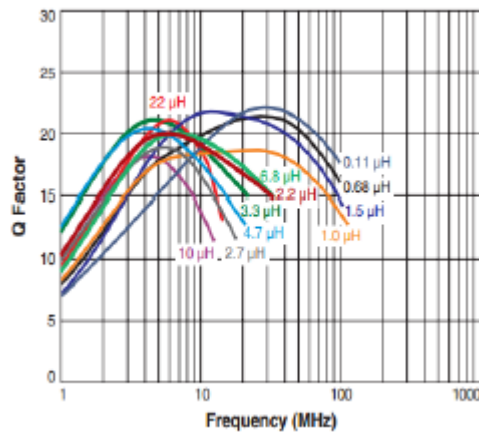
Electrical specifications at 25°C

Electrical Characteristics

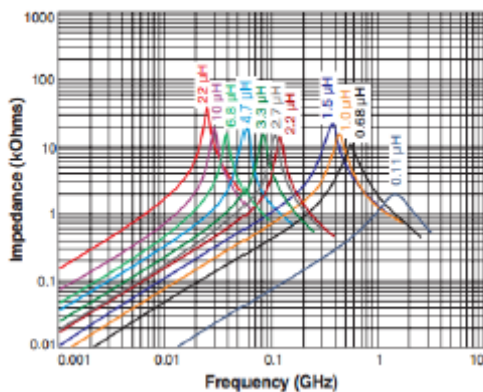
Typical L vs Frequency



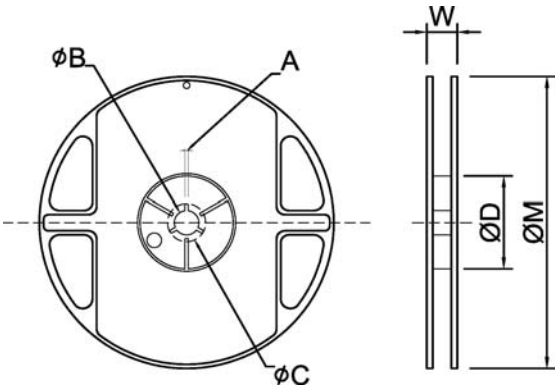
Typical Q vs Frequency

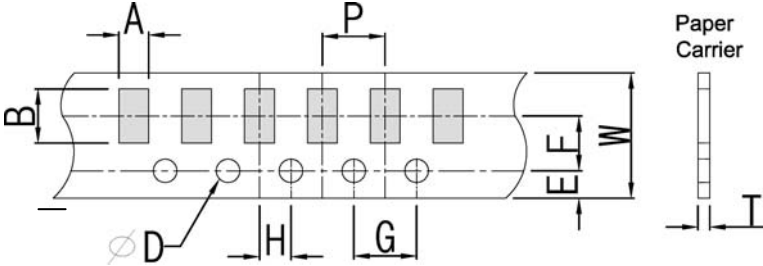


Typical Impedance vs Frequency



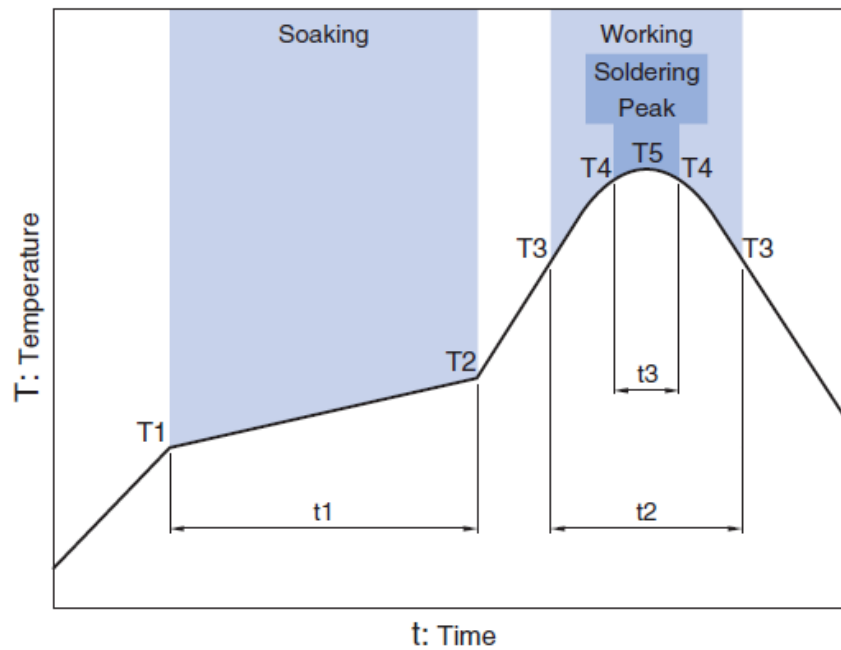
Taping Specifications

Reel and Taping Specification											
Reel Specification											
											
TYPE	SIZE		A	ψB	ψC	ψD	W	ψM			
	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	ψD	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

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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