

## HFS POWER INDUCTORS :HFS0603-R-1R0JL

### 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.

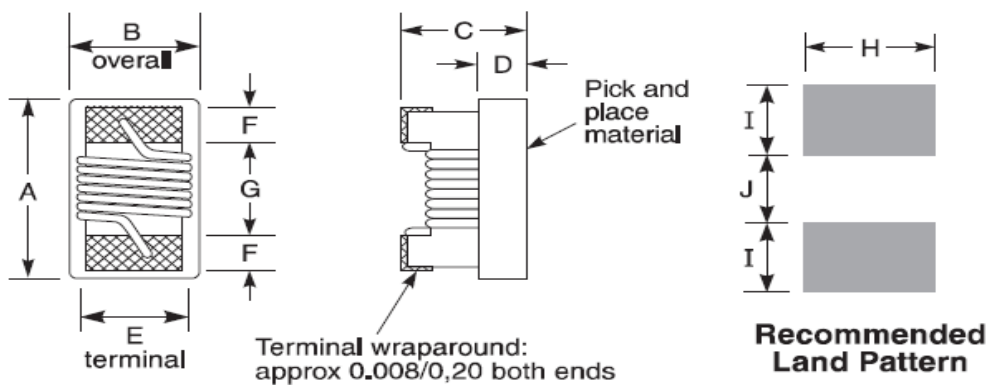
### Part number

HFS 0603 - R - 1R0 J L  
 1 2 3 4 5



(1) Size Code	0603
(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)
0603	1.80	1.32	1.12	0.38	0.76	0.33	0.86	1.02	0.64	0.64

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## Electrical Specification

Part number	Inductance (uH)	Percent Tolerance	Q <sub>typ</sub> (min)	SRF min (MHz)	DCR max (Ohms)	I <sub>rms</sub> (A)
HFS0603-R-1R0JL	1.0 @ 7.9MHz	5	15 @ 7.9MHz	190	0.50	0.80

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.

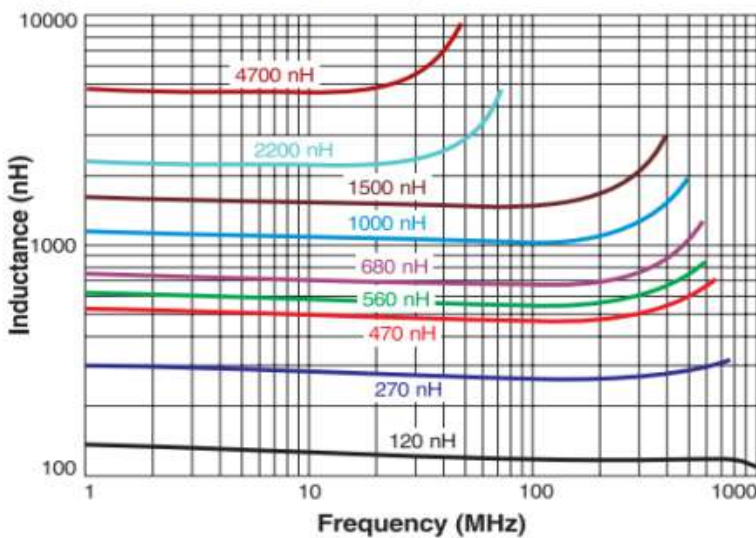
DCR measured using Agilent/HP 8753D network analyzer with HEK SMD-D test fixture.

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

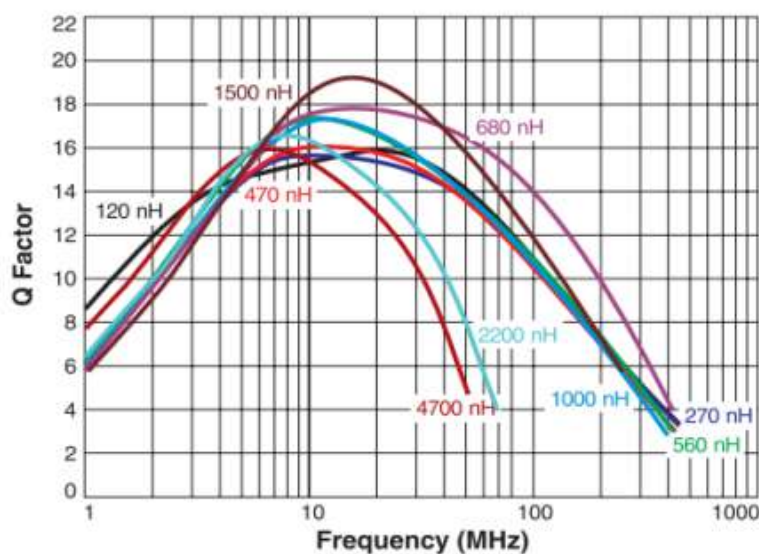
Electrical specifications at 25°C

## Electrical Characteristics

### Typical L vs Frequency



### Typical Q vs Frequency

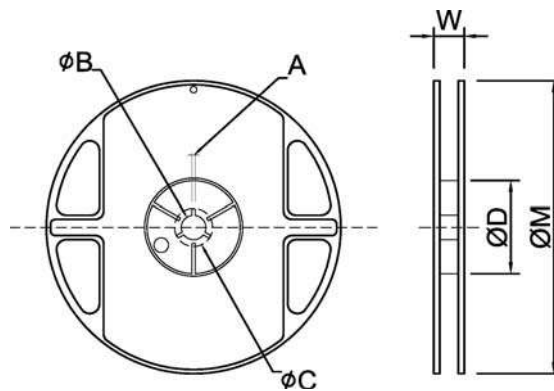


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### Taping Specifications

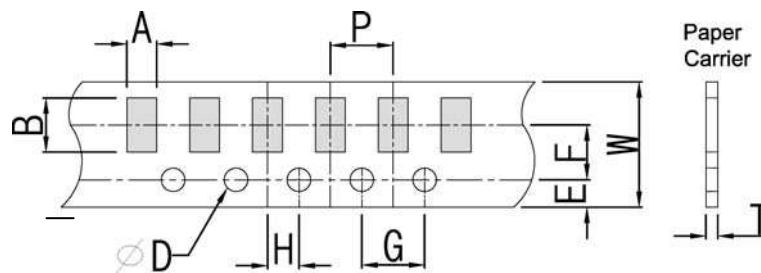
#### Reel and Taping Specification

##### 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

##### Taping Specification

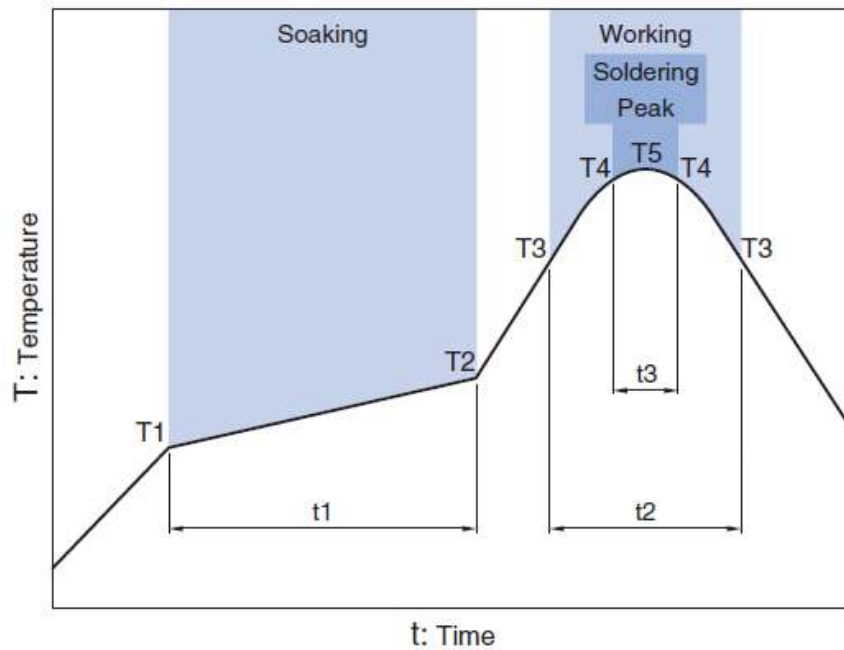


Packaging	Type	A	B	W	E	F	G	H	T	φD	P
	0603	1.7±0.20	2.3±0.20	8.0±0.20	1.75±0.10	3.0±0.05	4.0±0.10	2.0±0.05	0.75±0.10	1.50 <sup>+0.10</sup> <sub>-0</sub>	4.0±0.1

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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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