

		Features			
		♦ Monolith	nic structure	for high relial	bility
		♦ Excellen	t solderabilit	y and high he	eat
		resistanc	e		
		♦ No cross	coupling du	e to magnetic	shield
		♦ High DC	bias current	due to	
		develope	d material		
		◆ Low DC	resistance		
		Application	ons		
~		♦ Choke cir	rcuits in DC	power line of	consumer
		electronic	es such as pe	rsonal compu	iters,
		mobile pl	hones,digital	cameras,digi	tal video
		cameras,a	and music pl	ayers	
<b>Description Of Part Name</b>					
HPCL - C S 1608	Т	1R0	Μ	F	XX
A B C D	Е	F	G	Н	Ι
А	В			С	
Type Mat		aterial code	erial code Feature code		ire code
Chip Inductor for	C. Commis			S	Standard
HPCL Choke				H I	r Improved
<u>D</u>	<u>E</u>		<u>]</u>	F	
External Dimensions (L×W)	Pac	king	_	Nominal	Inductance
1608 [0603] 1.6×0.8	T Ta	pe & Reel	-	Example	Nominal Value
2012 [0805] 2.0×1.25			-	IK0	1.0μΗ
			L	<b>%</b> R=Point	
G	Н				
G Inductance Tolerance	H Hazardous	Substance	]	[	
G Inductance Tolerance M ±20%	H Hazardous Free P	Substance roducts		IInter	nal code

The data is reference only. Customers should verify actual device performance in their specific applications. Specifications are subject to change without notice.Please check our website for latest information. http://www.ftind.com



# SHAPE AND DIMENSIONS



				Unit: mm [inch]	
Туре	L	W	Т	a	
HPCL-CS1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2	
[0603]	$[.063 \pm .006]$	$[.031 \pm .006]$	$[.031 \pm .006]$	$[.012 \pm .008]$	
HPCL-CS2012	2.0 (+0.3, -0.1)	1.25±0.2	0.85±0.2 [.033±008]	0.5±0.3	
[0805]	[.079 (+.012, - .004)]	[.049±008]	1.25±0.2 [.049±008]	[.020±012]	

### **SPECIFICATIONS**

#### HPCL-CS1608TYPE

Part Number	Inductance	L Test Freq.	Min. Self- resonant Frequency	DC Resistance	Max. Rated Current	Thickness
Units	μΗ	MHz	MHz	Ω	mA	mm [inch]
Symbol	L	Freq.	S.R.F	DCR	Ir*	Т
HPCL-CS1608TR10□FXX	0.1	1	240	0.14±30%	700	
HPCL-CS1608TR22□FXX	0.22	1	150	0.27±30%	550	
HPCL-CS1608TR47□FXX	0.47	1	105	0.42±30%	400	0.8±0.15
HPCL-CS1608T1R0□FXX	1.0	1	75	0.20±30%	190	$[.031 \pm 006]$
HPCL-CS1608T2R2□FXX	2.2	1	50	0.40±30%	140	
HPCL-CS1608T4R7□FXX	4.7	1	35	0.60±30%	100	
HPCL-CS1608T100□FXX	10	1	20	0.90±30%	50	

 $\square$ : Please specify the inductance tolerance code (M=±20%, N=±30%);

 $\square$ : The rated current is the value of DC current at which the inductance value is dropped within 50% with the application of DC bias.

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# SHAPE AND DIMENSIONS



				Unit: mm [inch]	
Туре	L	W	Т	a	
HPCL-CS1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2	
[0603]	$[.063 \pm 006]$	$[.031 \pm 006]$	$[.031 \pm .006]$	$[.012 \pm .008]$	
HPCL-CS2012	2.0 (+0.3, -0.1)	1.25±0.2	0.85±0.2 [.033±008]	0.5±0.3	
[0805]	[.079 (+.012, - .004)]	[.049±008]	1.25±0.2 [.049±008]	[.020±012]	

### **SPECIFICATIONS**

#### HPCL-CS2012 TYPE

Part Number	Inductance	L Test Freq.	Min. Self- resonant Frequency	DC Resistance	Max. Rated Current	Thickness
Units	μH	MHz	MHz	Ω	mA	mm [inch]
Symbol	L	Freq.	S.R.F	DCR	Ir*	Т
HPCL-CS2012TR10□FXX	0.1	1	235	0.07±30%	1000	
HPCL-CS2012TR22□FXX	0.22	1	170	0.13±30%	800	
HPCL-CS2012TR47□FXX	0.47	1	125	0.18±30%	550	0.85±0.2
HPCL-CS2012T1R0□FXX	1.0	1	75	0.20±30%	300	$[.033 \pm .008]$
HPCL-CS2012T2R2□FXX	2.2	1	50	0.28±30%	220	
HPCL-CS2012T4R7□FXX	4.7	1	25	0.30±30%	180	
HPCL-CS2012T100□FXX	10	1	15	0.50±30%	60	1.25±0.2
HPCL-CH2012T100□FXX	10	1	20	0.50±30%	100	$[.049 \pm .008]$

 $\square$ : Please specify the inductance tolerance code (M=±20%, N=±30%);

 $\square$ : The rated current is the value of DC current at which the inductance value is dropped within 50% with the application of DC bias.

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1000

1000

1000

#### TYPICAL ELECTRICAL CHARACTERISTICS



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