

# PE-0805CLH6R8STS Datasheet



DiGi Electronics Part Number	PE-0805CLH6R8STS-DG
Manufacturer	<a href="#">Pulse Electronics</a>
Manufacturer Product Number	PE-0805CLH6R8STS
Description	FIXED IND 6.8UH 600MA 420MOHM SM
Detailed Description	6.8 $\mu$ H Shielded Multilayer Inductor 600 mA 420mOhm Max 0805 (2012 Metric)

<https://www.DiGi-Electronics.com>



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

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## Purchase and inquiry

Manufacturer Product Number:

PE-0805CLH6R8STS

Series:

0805CLH

Type:

Multilayer

Inductance:

6.8  $\mu$ H

Current Rating (Amps):

600 mA

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

1 MHz

Mounting Type:

Surface Mount

Supplier Device Package:

0805

Height - Seated (Max):

0.039" (1.00mm)

Manufacturer:

Pulse Electronics

Product Status:

Active

Material - Core:

-

Tolerance:

-

Current - Saturation (Isat):

200mA

DC Resistance (DCR):

420mOhm Max

Frequency - Self Resonant:

20MHz

Operating Temperature:

-40°C ~ 85°C

Features:

-

Package / Case:

0805 (2012 Metric)

Size / Dimension:

0.083" L x 0.049" W (2.10mm x 1.25mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)





ECCN:

EAR99

# MULTILAYER CHIP RF INDUCTORS

## PE-XXXXCLHxxxSTS SERIES



-  Monolithic inorganic material construction
-  Low DC resistance supports higher DC bias currents
-  Magnetically Shielded for low Cross coupling
-  Industry Standard 0603, 0805 and 1008 size offered

### 0603 SIZE

Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C

Part Number	Inductance (uH)	Test Frequency (MHz)	DC Resistance		SRF (MHz MIN)	Saturation Current Typ. Isat (mA)	Heat Rated Current Max. Irms (mA)
			(mΩ MAX)	(Typical)			
PE-0603CLHR47STS	0.47	1	130	100	100	800	1050
PE-0603CLHR56STS	0.56	1	156	120	100	800	1050
PE-0603CLHR68STS	0.68	1	180	150	100	750	1050
PE-0603CLH1R0STS	1.0	1	260	200	98	600	900
PE-0603CLH1R5STS	1.5	1	312	240	95	400	750
PE-0603CLH1R8STS	1.8	1	312	240	95	400	750
PE-0603CLH2R2STS	2.2	1	312	240	95	400	750
PE-0603CLH4R7STS	4.7	1	650	500	65	350	700

### 0805 SIZE

Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C

Part Number	Inductance (uH)	Test Frequency (MHz)	DC Resistance		SRF (MHz MIN)	Saturation Current Typ. Isat (mA)	Heat Rated Current Max. Irms (mA)
			(mΩ MAX)	(Typical)			
PE-0805CLH1R0STS	1.0	1	137	110	75	800	1150
PE-0805CLH1R5STS	1.5	1	150	120	65	750	1100
PE-0805CLH2R2STS	2.2	1	250	200	50	600	950
PE-0805CLH3R3STS	3.3	1	275	220	35	400	800
PE-0805CLH4R7STS	4.7	1	375	300	25	300	750
PE-0805CLH6R8STS	6.8	1	375	300	25	200	600

### 1008 SIZE

Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C

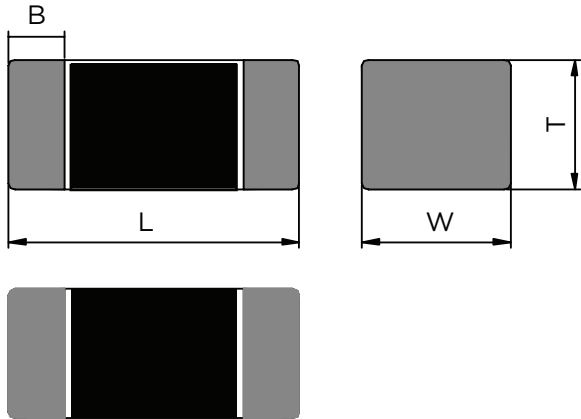
Part Number	Inductance (uH)	Test Frequency (MHz)	DC Resistance		SRF (MHz MIN)	Saturation Current Typ. Isat (mA)	Heat Rated Current Max. Irms (mA)
			(mΩ MAX)	(Typical)			
PE-1008CLH1R0STS	1.0	1	75	60	70	1400	1600
PE-1008CLH1R5STS	1.5	1	88	70	60	1100	1400
PE-1008CLH2R2STS	2.2	1	125	100	55	850	1300
PE-1008CLH3R3STS	3.3	1	175	140	30	650	1200
PE-1008CLH4R7STS	4.7	1	225	180	25	580	1100

# MULTILAYER CHIP RF INDUCTORS

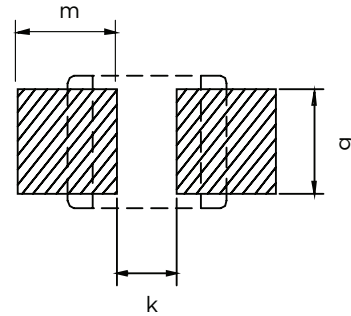
## PE-XXXXCLHxxxSTS SERIES

### CLH Series

#### DIMENSIONS



#### PCB Layout



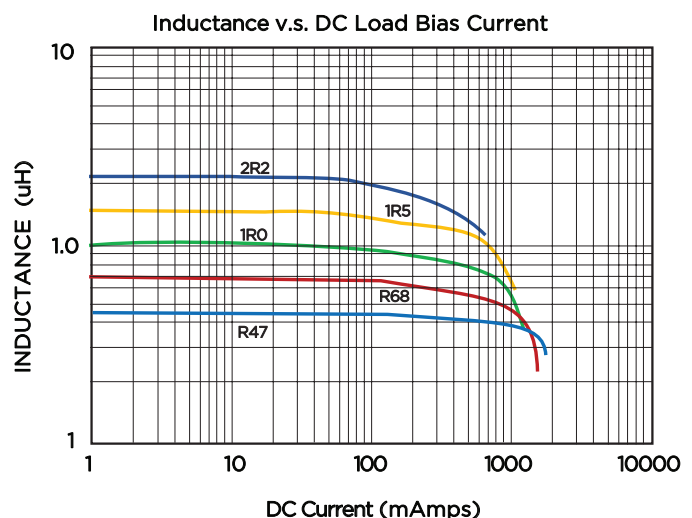
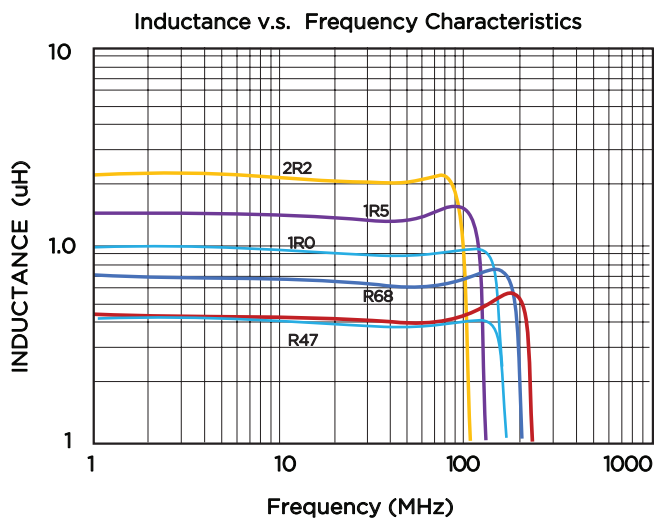
**Dimensions:**  
Unless otherwise specified,  
all tolerances are  $\pm 0,25$

#### Mechanical Specification - Dimension in mm

Part Number	L	W	T	B	g	k	m	PACKING QUANTITY PER REEL
PE-0603CLHXXXSTS	1.60 +/- 0.2	0.80 +/- 0.2	0.80 +/- 0.2	0.30 +/- 0.2	1.27	0.70	0.64	4000
PE-0805CLHXXXSTS	2.00 +/- 0.2	1.20 +/- 0.2	0.90 +/- 0.2	0.50 +/- 0.2	1.78	0.76	1.02	4000
PE-1008CLHXXXSTS	2.50 +/- 0.2	2.00 +/- 0.2	1.00 +/- 0.2	0.50 +/- 0.2	2.54	0.80	1.02	3000

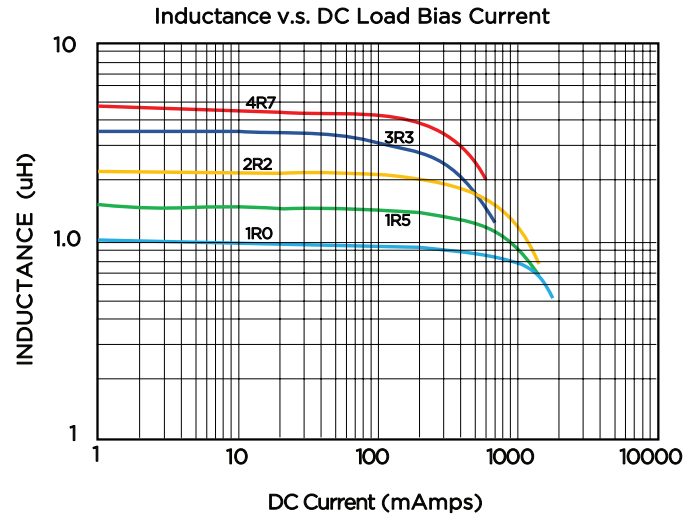
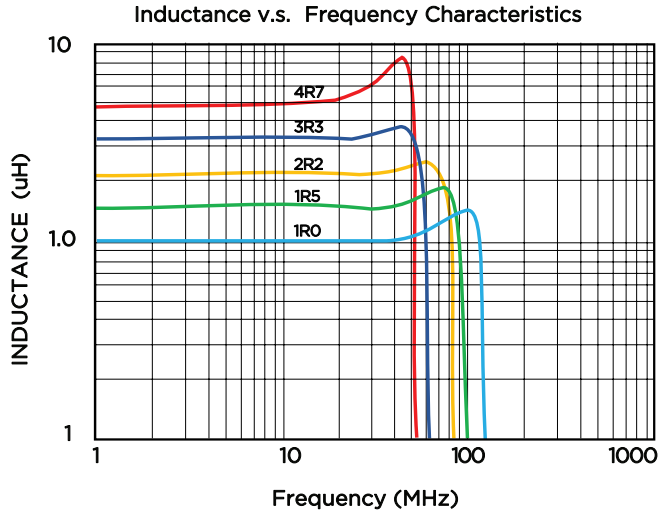
### Characteristic Graphs

#### 0603CLH Series

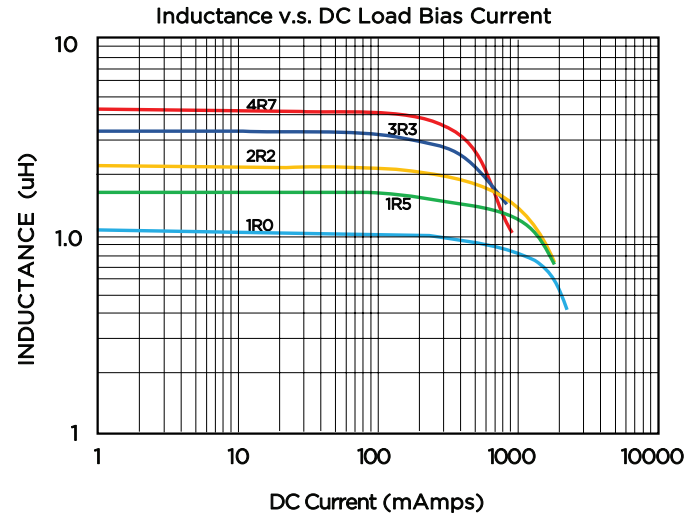
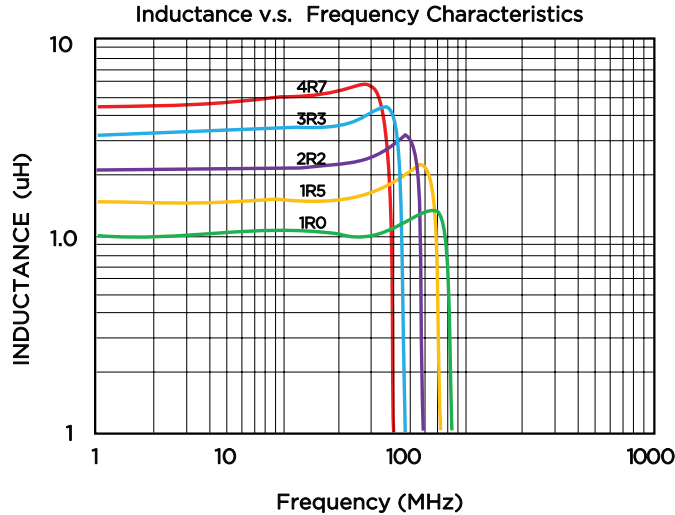


# MULTILAYER CHIP RF INDUCTORS PE-XXXXCLHxxxSTS SERIES

## 0805CLH Series



## 1008CLH Series



### For More Information:

Americas - [prodinfonetworkamericas@pulseelectronics.com](mailto:prodinfonetworkamericas@pulseelectronics.com) | Europe - [comms-Apps-Europe@pulseelectronics.com](mailto:comms-Apps-Europe@pulseelectronics.com) | Asia - [prodinfonetworkapac@pulseelectronics.com](mailto:prodinfonetworkapac@pulseelectronics.com)

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