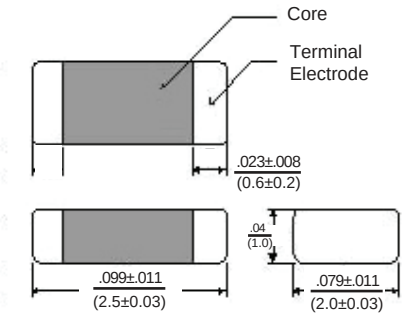
RoHS

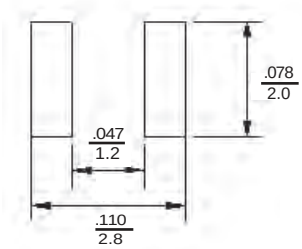
SMD Power Inductor

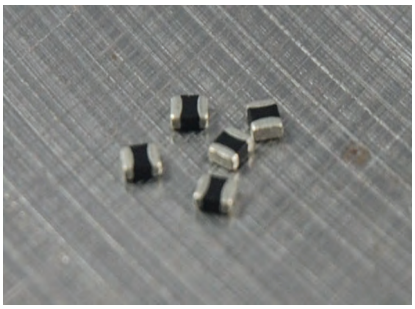
PCSE15Q8

Dimensions: Inches / (mm)



Recommended Land Pattern:

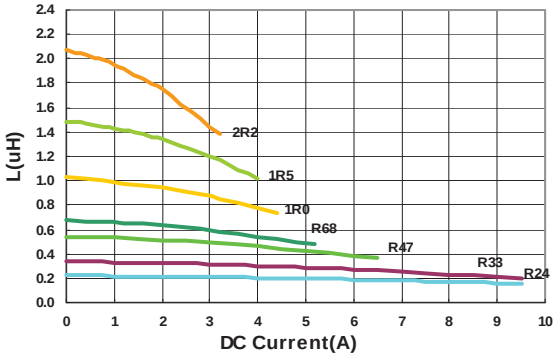




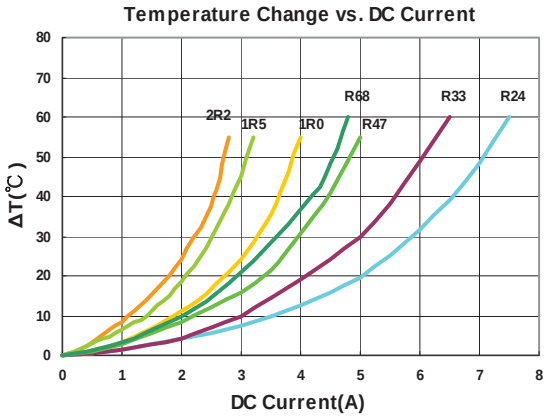
Allied Part Number	Inductance (uH)	Tolerance (%)	Test Freq. (MHz)	Irms(A) Max (Typ)	Isat(A) Max (Typ)	DCR (mΩ) Max(Typ)
PCSE15Q8-R24M-RC	0.24	20	2, 0.2v	5.5(6.5)	8.0(9.5)	18(13)
PCSE15Q8-R33M-RC	0.33	20	2, 0.2v	4.8(5.5)	6.5(8.0)	24(18)
PCSE15Q8-R47M-RC	0.47	20	2, 0.2v	3.9(4.5)	5.0(6.2)	35(27)
PCSE15Q8-R68M-RC	0.68	20	2, 0.2v	3.7(4.2)	4.5(5.6)	40(32)
PCSE15Q8-1R0M-RC	1.0	20	2, 0.2v	3.0(3.5)	3.7(4.6)	53(45)
PCSE15Q8-1R5M-RC	1.5	20	2, 0.2v	2.4(2.8)	3.1(3.8)	75(68)
PCSE15Q8-2R2M-RC	2.2	20	2, 0.2v	2.2(2.5)	2.5(3.0)	97(87)

All specifications subject to change without notice.

Inductance vs. DC Current



Temperature Change vs. DC Current



Features

- 1008 EIA Size
- High Current Capacity
- Molded Construction
- Expanded Solderability Characteristics

Electrical

Inductance range: 0.24 to 2.2uH
Tolerance: 20%
Test Frequency: 2MHz, 0.2v
Operating Temp: -40ºC to +125ºC
Isat: The current at which the inductance will drop by no more than 30º% of its initial value without current.
Irms: The current at which the Temp will will Rise by 40ºC from its Ambient Temp without current

Resistance to solder heat:
Pre heat: 150ºC. 1minute
Solder composition: Sn/Ag3/Cu0.5
Solder temp: 260ºC±5ºC
Immersion time: 10 sec ± 1 sec.
No Damage with more than 75% coverage inductance within 20% of initial value.

Test Equipment:
(L): Agilent E4991A/HP4287A+16197A
DCR: Chen Hwa 502BC
Isat: Aligent E4980A+HP42841A
Irms: Aligent 6641

Physical

Packaging: 3000 pieces per 7 inch reel.
Marking: None