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Honeywell Sensing and Control

ICL Inrush Current Limiters

Honeywell ICL Inrush Current Limiters are a cost effective way of limiting the Inrush of current that can damage components in a switching power supply and other power devices when the equipment is turned on.

Features

PC board mountable

Rugged design

Solderable leads

High quality

Low cost

0.310" NOM.

0.10" NOM.

1.0" MIN.

All illustration dimensions are in inches.

Inrush Current Limiter Specifications

Parameter

Value

Resistance @ 25 °C, ± 20%

0.5 to 220 Ohms

Maximum Steady State Current

1 to 30 Amperes

Resistance at Maximum Steady State Current

0.01 to 2.34 Ohms

Operating Temperature

-40 °C to 185 °C

Storage Temperature

-40 °C to 220 °C

Lead Pull Strength

1 kg, applied in axial direction

Solderability of Leads

More than 95%

Lead Construction

Straight tinned copper (kinked available)

Coating

Black Silicone

Maximum Diameter

9.5 mm (0.374 inch) to 32.0 mm (1.260 inch)

Maximum Thickness

5.0 mm (0.204 inch) to 8.0 mm (0.327 inch)

Lead Diameter

0.8 mm (0.032 inch) to 1.0 mm (0.040 inch)

Standard ICL Specifications (Part I)

Part Number

Resistance at 25 °C (Ohms)

Max. Steady State Current (Amperes)

Resistance @ Max. Steady State Current (Ohms)

ICL32OR530 01

0.5

30

0.01

ICL22IR020 01

1

20

0.02

ICL32IR030 01

1

30

0.02

ICL222R018 01

2

18

0.03

ICLI52R508 01

2.5

8

0.07

ICL222R508 01

2.5

8

0.06

ICL222R515 01

2.5

15

0.03

ICLI55R006 01

5

6

0.1

ICL155R007 01

5

7

0.07

ICL1010002 01

10

2

0.3

ICL1010004 01

10

3.2

0.18

ICL1210005 01

10

5

0.13

ICL1510006 01

10

6

0.15

ICL2210008 01

10

8

0.1

ICL1512004 01

12

4

0.26

ICL1516004 01

16

4

0.27

ICL1220002 01

20

2

0.5

ICL1240002 01

40

2

0.6

ICL1250002 01

50

2

0.72

ICL1580003 01

80

2.5

0.75

ICL2212103 01

120

3

0.9

ICL1522102 01

220

2

0.8

Standard ICL Specifications (Part II)

Part Number

"D" Max. Coated Diameter (mm)

"T" Max. Coated Thickness (mm)

Lead Diameter (mm)

ICL32OR530 01

32

8

1

ICL22IR020 01

22

6

1

ICL32IR030 01

32

6

1

ICL222R018 01

22

6

1

ICLI52R508 01

15

6

0.8

ICL222R508 01

22

6

1

ICL222R515 01

22

6

1

ICLI55R006 01

15

6

0.8

ICL155R007 01

15

6

0.8

ICL1010002 01

9.5

5

0.5

ICL1010004 01

9.5

5

0.5

ICL1210005 01

11.5

5

0.8

ICL1510006 01

15

6

0.8

ICL2210008 01

22

6

1

ICL1512004 01

15

6

0.8

ICL1516004 01

15

6

0.8

ICL1220002 01

11.5

5

0.8

ICL1240002 01

12

5

0.8

ICL1250002 01

11.5

5

0.8

ICL1580003 01

15

6

0.8

ICL2212103 01

22

6

1

ICL1522102 01

15

5

0.8

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