



Features

- ◆ Magnetically Shielded circuit construction
- ◆ Low cost and high reliability

Applications

- ◆ Personal Computers
- ◆ Variety of Battery Power Equipment
- ◆ DC Power Supply Circuits

Description of Part Name

HDDRS

A

HDDRS
Product Code

0606

B

-470

C

M

D

B

E

F

F

XX

G

B

Dimension (mm)	
0606	6.5x6.5x4.0
0807	8.3x7.5x5.0

D

Inductance Tolerance	
J	±5%
K	±10%
L	±15%
M	±20%

E

Packing Style	
A	Ammo
T	Tape and Reel
B	Bulk

C

Inductance Value	
Example	Nominal Value
1R0	1.0μH
470	47μH
101	100μH
102	1,000μH

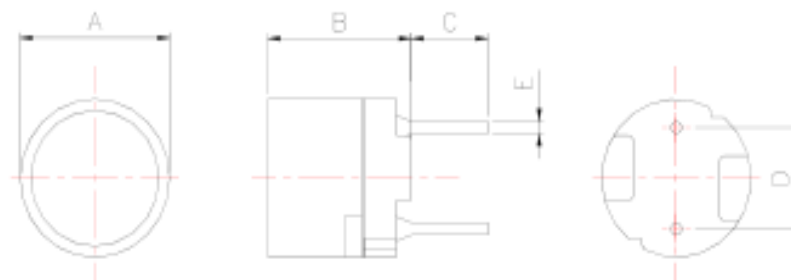
F

Lead / Halogen Free
F

G

Internal Code
XX

SHAPE AND DIMENSIONS



PART No.	A (Max.)	B (Max.)	C	D	E
HDDRS0606	6.5	6.5	4.0±1.0	4.0±0.5	0.50±0.05
HDDRS0807	8.3	7.5	5.0±1.0	5.0±0.5	0.65±0.05

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ELECTRICAL CHARACTERISTICS

HDDRS0606 Series

代码 Code	电感 L	测试条件 Test Cond.	直流阻抗 DC Res.	额定电流 IDC
单位 (unit)	(uH)	(MHz)	(Ω) Max.	(A) Max.
HDDRS0606-220M	22	1KHz,0.1V	0.13	0.96
HDDRS0606-270M	27	1KHz,0.1V	0.18	0.87
HDDRS0606-330M	33	1KHz,0.1V	0.21	0.78
HDDRS0606-390M	39	1KHz,0.1V	0.26	0.72
HDDRS0606-470M	47	1KHz,0.1V	0.29	0.66
HDDRS0606-560M	56	1KHz,0.1V	0.33	0.6
HDDRS0606-680M	68	1KHz,0.1V	0.36	0.55
HDDRS0606-820M	82	1KHz,0.1V	0.39	0.5
HDDRS0606-101K	100	1KHz,0.1V	0.54	0.45
HDDRS0606-121K	120	1KHz,0.1V	0.62	0.41
HDDRS0606-151K	150	1KHz,0.1V	0.72	0.37
HDDRS0606-181K	180	1KHz,0.1V	0.88	0.34
HDDRS0606-221K	220	1KHz,0.1V	0.99	0.3
HDDRS0606-271K	270	1KHz,0.1V	1.52	0.27
HDDRS0606-331K	330	1KHz,0.1V	1.69	0.25
HDDRS0606-391K	390	1KHz,0.1V	1.85	0.23
HDDRS0606-471K	470	1KHz,0.1V	2.85	0.21
HDDRS0606-561K	560	1KHz,0.1V	3.21	0.19
HDDRS0606-681K	680	1KHz,0.1V	3.6	0.17
HDDRS0606-821K	820	1KHz,0.1V	4.87	0.16
HDDRS0606-102K	1000	1KHz,0.1V	5.56	0.14

※ : Please specify the inductance tolerance code (K=±10%, M=±20%)

※ Inductance drop = 10% typ. at IDC

※ Operating Temperature Range: -20°C ~ +105°C

※ We are capable to design according to customer special requirement, Please contact your local sales.

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ELECTRICAL CHARACTERISTICS

HDDRS0807 Series

代码 Code	电感 L	测试条件 Test Cond.	直流阻抗 DC Res.	额定电流 IDC
单位 (unit)	(uH)	(MHz)	(Ω) Max.	(A) Max.
HDDRS0807-220M	22	1KHz,0.1V	0.08	1.6
HDDRS0807-270M	27	1KHz,0.1V	0.1	1.4
HDDRS0807-330M	33	1KHz,0.1V	0.14	1.3
HDDRS0807-390M	39	1KHz,0.1V	0.15	1.2
HDDRS0807-470M	47	1KHz,0.1V	0.17	1.1
HDDRS0807-560M	56	1KHz,0.1V	0.19	0.99
HDDRS0807-680M	68	1KHz,0.1V	0.21	0.89
HDDRS0807-820M	82	1KHz,0.1V	0.27	0.81
HDDRS0807-101K	100	1KHz,0.1V	0.32	0.74
HDDRS0807-121K	120	1KHz,0.1V	0.36	0.67
HDDRS0807-151K	150	1KHz,0.1V	0.51	0.6
HDDRS0807-181K	180	1KHz,0.1V	0.57	0.55
HDDRS0807-221K	220	1KHz,0.1V	0.76	0.5
HDDRS0807-271K	270	1KHz,0.1V	0.86	0.45
HDDRS0807-331K	330	1KHz,0.1V	0.97	0.41
HDDRS0807-391K	390	1KHz,0.1V	1.28	0.37
HDDRS0807-471K	470	1KHz,0.1V	1.44	0.34
HDDRS0807-561K	560	1KHz,0.1V	1.61	0.31
HDDRS0807-681K	680	1KHz,0.1V	2.07	0.28
HDDRS0807-821K	820	1KHz,0.1V	2.33	0.26
HDDRS0807-102K	1000	1KHz,0.1V	2.72	0.23
HDDRS0807-122K	1200	1KHz,0.1V	3.98	0.21
HDDRS0807-152K	1500	1KHz,0.1V	4.5	0.19
HDDRS0807-182K	1800	1KHz,0.1V	6.81	0.17
HDDRS0807-222K	2200	1KHz,0.1V	7.56	0.16
HDDRS0807-272K	2700	1KHz,0.1V	8.54	0.14
HDDRS0807-332K	3300	1KHz,0.1V	9.74	0.13
HDDRS0807-392K	3900	1KHz,0.1V	12.9	0.12
HDDRS0807-472K	4700	1KHz,0.1V	14.7	0.11
HDDRS0807-562K	5600	1KHz,0.1V	20.4	0.099
HDDRS0807-682K	6800	1KHz,0.1V	23	0.089
HDDRS0807-822K	8200	1KHz,0.1V	30.6	0.081
HDDRS0807-103K	10000	1KHz,0.1V	35	0.074

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Electrical Performance Test

Item	Specification	Test Methods
Inductance	Refer to standard electrical spec.	HP4291B
DCR		Agilent 34401A

Reliability Test

tem	Specification	Test Methods
Vibration	Appearance: No damage L change: within±10% RDC: within specification	Test device shall be soldered on the substrate Oscillation Frequency: 10 to 55 to 10Hz for 1 min. Amplitude: 1.5 mm Time: 2 hrs for each axis (X, Y &Z), total 6 hrs
Solderability	90% covered with solder	Pre-heating: 150°C, 1min Solder Composition: Sn/Ag/Cu=95.6/3.0/0.5 Solder Temperature: 245±5°C Immersion Time: 4±1sec
Resistance to Soldering Heat	Appearance: No Damage	Pre-heating:150°C,1Min. Solder Composition: Sn/Ag/Cu=95.6/3.0/0.5 Solder Temperature: 260±5°C Immersion Time: 4±1Sec.

Environmental Test

tem	Specification	Test Methods
Temperature Shock	Appearance: No damage L change: within±10% RDC: within specification	10 cycles (Air to Air) 1 cycles shall consist of: 30 minutes exposure to -55 °C 30 minutes exposure to 125 °C 15 seconds maximum transition between temperatures
Temperature Cycle	Appearance: No damage L change: within±10% RDC: within specification	One cycle: One cycle/step1: -25±3°C for 30min step2: 25±2°C for 3min step3:85±3°C for 30min step4:25±2°C for 3min Total: 100 cycles Measured after exposure in the room condition for 24hrs
Humidity Resistance	Appearance: No damage L change: within±10% RDC: within specification	Temperature: 40±2°C Relative Humidity: 90 ~ 95% Time: 1000hrs Measured after exposure in the room condition for 24hrs
Heat Temperature		Temperature: 85±3°C Relative Humidity: 20% Applied Current: Rated Current Time: 1000hrs Measured after exposure in the room condition for 24hrs
Low Temperature		Temperature: -25±3°C Relative Humidity: 0% Time: 1000hrs Measured after exposure in the room condition for 24hrs

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