Risinwel 睿新微

SMD Shielded Power Inductors

RH-D Series

特性及应用

（1）使用载带包装运用于 SMT。

（2）产品小型化,方形;宽度:3.0mm~8.5mm,高度:1.1mm~4.5mm.

（3）磁性屏蔽结构.

（4）适用于回流焊 SMT 工艺。

（5）无铅产品，符合 ROHS 指令。

（6）广泛应用于数码相机,扫描仪,升降压转换,磁带录像机电源,液晶显示组件,便携式终端设备,网络通信,笔记本电脑,电脑及电脑周边等.

产品标示

WRH	4D28	－	221	M	-	T/B
(1)	(2)		(3)	(4)		(5)

(1)产品类型：屏蔽式 WHR 型。

(2)外观尺寸：方形,4D 表示宽度 5.0Max;28 表示高度 3.0Max.

Extemal Dimensions (L*W*H) [mm]	
WRH2D09	3.0*3.0*0.9
WRH2D11	3.0*3.0*1.1
WRH2D14	3.0*3.0*1.2
WRH2D18	3.0*3.0*1.3
WRH3D11	4.0*4.0*1.1
WRH3D16	4.0*4.0*1.6
WRH3D28	4.0*4.0*2.8
WRH4D18	5.0*5.0*1.8
WRH4D28	5.0*5.0*2.8
WRH5D18	6.0*6.0*1.8
WRH5D28	6.0*6.0*2.8
WRH6D28	7.0*7.0*2.8
WRH6D38	7.0*7.0*3.8
WRH8D28	8.3*8.3*2.8
WRH8D38	8.3*8.3*4.3

(3)电气特性表示 221 表示 220μH。

(4)允许公差：M 表示±20%，N 表示±30%。

(5)包装方式：T 表示载带盘装；B 表示袋装。

外形和尺寸 Shapeand Size

Fig 1

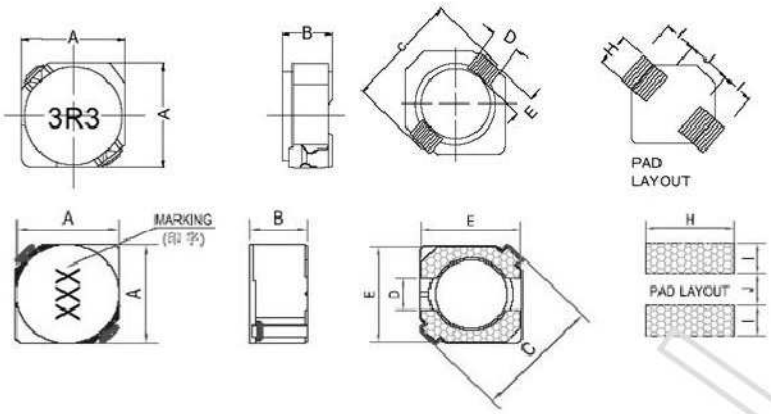
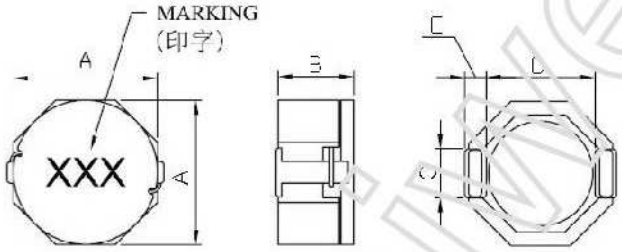


Fig 2



Unit:mm

TYPE	Shape	A	B	C	D	E
WRH2D09	Fig1	3.2MAX	1.0MAX	4.5MAX	1.0	3.0
WRH2D11	Fig1	3.2MAX	1.3MAX	4.5MAX	1.0	3.0
WRH2D14	Fig1	3.2MAX	1.6MAX	4.5MAX	1.0	3.0
WRH2D18	Fig1	3.2MAX	2.0MAX	4.5MAX	1.0	3.0
WRH3D11	Fig1	4.0MAX	1.3MAX	5.5MAX	1.2	3.5
WRH3D16	Fig1	4.0MAX	1.8MAX	5.5MAX	1.2	3.5
WRH3D28	Fig1	4.0MAX	3.0MAX	5.5MAX	1.2	3.5
WRH4D18	Fig1	5.0MAX	2.0MAX	6.9MAX	1.5	4.5
WRH4D28	Fig1	5.0MAX	3.0MAX	6.9MAX	1.5	4.5
WRH5D18	Fig1	6.0MAX	2.0MAX	8.2MAX	2.0	5.5
WRH5D28	Fig1	6.0MAX	3.0MAX	8.2MAX	2.0	5.5
WRH6D28	Fig1	7.0MAX	3.0MAX	9.5MAX	2.0	6.5
WRH6D38	Fig1	7.0MAX	4.0MAX	9.5MAX	2.0	6.5
WRH8D28	Fig2	8.3MAX	3.0MAX	2.5MAX	6.3	1.2
WRH8D43	Fig2	8.3MAX	4.8MAX	2.5MAX	6.3	1.2

WRH2D11 TYPE

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH2D11-1R5N	1.5	100KHz/0.25V	0.07	0.90
WRH2D11-2R2N	2.2	100KHz/0.25V	0.10	0.78
WRH2D11-3R3N	3.3	100KHz/0.25V	0.12	0.60
WRH2D11-4R7N	4.7	100KHz/0.25V	0.17	0.50
WRH2D11-6R8N	6.8	100KHz/0.25V	0.26	0.44
WRH2D11-100N	10	1KHz/0.25V	0.40	0.35

WRH2D18 TYPE

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH2D18-2R2N	2.2	100KHz/0.25V	0.04	0.85
WRH2D18-3R3N	3.3	100KHz/0.25V	0.05	0.75
WRH2D18-4R7N	4.7	100KHz/0.25V	0.08	0.63
WRH2D18-6R8N	6.8	100KHz/0.25V	0.12	0.52
WRH2D18-100N	10	1KHz/0.25V	0.18	0.43
WRH2D18-150M	15	1KHz/0.25V	0.22	0.35
WRH2D18-220M	22	1KHz/0.25V	0.36	0.30
WRH2D18-330M	33	1KHz/0.25V	0.52	0.24
WRH2D18-470M	47	1KHz/0.25V	0.75	0.20

WRH3D16 TYPE

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH3D16-1R5N	1.5	100KHz/0.25V	0.05	1.55
WRH3D16-2R2N	2.2	100KHz/0.25V	0.07	1.20
WRH3D16-3R3N	3.3	100KHz/0.25V	0.09	1.10
WRH3D16-4R7N	4.7	100KHz/0.25V	0.11	0.90
WRH3D16-6R8N	6.8	100KHz/0.25V	0.17	0.73
WRH3D16-100M	10	1KHz/0.25V	0.21	0.55

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH3D16-150M	15	1KHz/0.25V	0.30	0.45
WRH3D16-220M	22	1KHz/0.25V	0.43	0.40
WRH3D16-330M	33	1KHz/0.25V	0.68	0.32

WRH4D18 TYPE

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH4D18-1R0N	1	100KHz/0.25V	0.045	1.72
WRH4D18-2R2N	2.2	100KHz/0.25V	0.075	1.32
WRH4D18-2R7N	2.7	100KHz/0.25V	0.105	1.28
WRH4D18-3R3N	3.3	100KHz/0.25V	0.110	1.04
WRH4D18-3R9N	3.9	100KHz/0.25V	0.155	0.88
WRH4D18-4R7N	4.7	100KHz/0.25V	0.162	0.84
WRH4D18-5R6N	5.6	100KHz/0.25V	0.170	0.80
WRH4D18-6R8N	6.8	100KHz/0.25V	0.200	0.76
WRH4D18-8R2N	8.2	100KHz/0.25V	0.245	0.68
WRH4D18-1 00M	10	1KHz/0.25V	0.200	0.61
WRH4D18-120M	12	1KHz/0.25V	0.210	0.56
WRH4D18-150M	15	1KHz/0.25V	0.240	0.50
WRH4D18-180M	18	1KHz/0.25V	0.338	0.48
WRH4D18-220M	22	1KHz/0.25V	0.397	0.41
WRH4D18-270M	27	1KHz/0.25V	0.441	0.35
WRH4D18-330M	33	1KHz/0.25V	0.690	0.32
WRH4D18-390M	39	1KHz/0.25V	0.709	0.30
WRH4D18-470M	47	1KHz/0.25V	0.922	0.28
WRH4D18-560M	56	1KHz/0.25V	1.080	0.26
WRH4D18-680M	68	1KHz/0.25V	1.300	0.24
WRH4D18-820M	82	1KHz/0.25V	1.560	0.22
WRH4D18-101M	100	1KHz/0.25V	1.730	0.20
WRH4D18-151M	150	1KHz/0.25V	2.670	0.15

WRH4D28 TYPE

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH4D28-1R2N	1.2	100KHz/0.25V	0.024	2.56
WRH4D28-1R8N	1.8	100KHz/0.25V	0.028	2.20
WRH4D28-2R2N	2.2	100KHz/0.25V	0.031	2.04
WRH4D28-2R7N	2.7	100KHz/0.25V	0.043	1.60
WRH4D28-3R3N	3.3	100KHz/0.25V	0.049	1.57
WRH4D28-3R9N	3.9	100KHz/0.25V	0.065	1.44
WRH4D28-4R7N	4.7	100KHz/0.25V	0.072	1.32
WRH4D28-5R6N	5.6	100KHz/0.25V	0.101	1.17
WRH4D28-6R8N	6.8	100KHz/0.25V	0.109	1.12
WRH4D28-8R2N	8.2	100KHz/0.25V	0.118	1.04
WRH4D28-100M	10	1KHz/0.25V	0.128	1.00
WRH4D28-120M	12	1KHz/0.25V	0.132	0.84
WRH4D28-150M	15	1KHz/0.25V	0.149	0.76
WRH4D28-180M	18	1KHz/0.25V	0.166	0.72
WRH4D28-220M	22	1KHz/0.25V	0.235	0.70
WRH4D28-270M	27	1KHz/0.25V	0.281	0.58
WRH4D28-330M	33	1KHz/0.25V	0.378	0.56
WRH4D28-390M	39	1KHz/0.25V	0.384	0.50
WRH4D28-470M	47	1KHz/0.25V	0.587	0.48
WRH4D28-560M	56	1KHz/0.25V	0.625	0.41
WRH4D28-680M	68	1KHz/0.25V	0.699	0.35
WRH4D28-820M	82	1KHz/0.25V	0.915	0.32
WRH4D28-101M	100	1KHz/0.25V	1.02	0.29
WRH4D28-121M	120	1KHz/0.25V	1.27	0.27
WRH4D28-151M	150	1KHz/0.25V	1.35	0.24
WRH4D28-181M	180	1KHz/0.25V	1.54	0.22

WRH5D18 TYPE

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH5D18-4R1N	4.1	100KHz/0.25V	0.057	1.95
WRH5D18-5R4N	5.4	100KHz/0.25V	0.076	1.60
WRH5D18-6R2N	6.2	100KHz/0.25V	0.096	1.40
WRH5D18-8R9N	8.9	100KHz/0.25V	0.116	1.25
WRH5D18-100M	10	1KHz/0.25V	0.124	1.20
WRH5D18-120M	12	1KHz/0.25V	0.153	1.10
WRH5D18-150M	15	1KHz/0.25V	0.196	0.97
WRH5D18-180M	18	1KHz/0.25V	0.210	0.85
WRH5D18-220M	22	1KHz/0.25V	0.290	0.80
WRH5D18-270M	27	1KHz/0.25V	0.330	0.75
WRH5D18-330M	33	1KHz/0.25V	0.386	0.65
WRH5D18-390M	39	1KHz/0.25V	0.520	0.57
WRH5D18-470M	47	1KHz/0.25V	0.595	0.54
WRH5D18-560M	56	1KHz/0.25V	0.665	0.50
WRH5D18-680M	68	1KHz/0.25V	0.840	0.43
WRH5D18-820M	82	1KHz/0.25V	0.978	0.41
WRH5D18-101M	100	1KHz/0.25V	1.200	0.36

WRH5D28 TYPE

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH5D28-2R5N	2.5	100KHz/0.25V	0.018	2.60
WRH5D28-3R0N	3	100KHz/0.25V	0.024	2.40
WRH5D28-4R2N	4.2	100KHz/0.25V	0.031	2.20
WRH5D28-5R3N	5.3	100KHz/0.25V	0.038	1.90
WRH5D28-6R2N	6.2	100KHz/0.25V	0.045	1.80
WRH5D28-8R2N	8.2	100KHz/0.25V	0.053	1.60
WRH5D28-100M	10	1KHz/0.25V	0.065	1.30

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH5D28-120M	12	1KHz/0.25V	0.076	1.20
WRH5D28-150M	15	1KHz/0.25V	0.103	1.10
WRH5D28-180M	18	1KHz/0.25V	0.110	1.00
WRH5D28-220M	22	1KHz/0.25V	0.122	0.90
WRH5D28-270M	27	1KHz/0.25V	0.175	0.85
WRH5D28-330M	33	1KHz/0.25V	0.189	0.75
WRH5D28-390M	39	1KHz/0.25V	0.212	0.70
WRH5D28-470M	47	1KHz/0.25V	0.250	0.62
WRH5D28-560M	56	1KHz/0.25V	0.305	0.58
WRH5D28-680M	68	1KHz/0.25V	0.355	0.52
WRH5D28-820M	82	1KHz/0.25V	0.463	0.46
WRH5D28-101M	100	1KHz/0.25V	0.520	0.42

WRH6D28 TYPE

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH6D28-3R0N	3	100KHz/0.25V	0.024	3.00
WRH6D28-3R9N	3.9	100KHz/0.25V	0.027	2.60
WRH6D28-5R0N	5	100KHz/0.25V	0.031	2.40
WRH6D28-6R0N	6	100KHz/0.25V	0.035	2.25
WRH6D28-7R3N	7.3	100KHz/0.25V	0.054	2.10
WRH6D28-8R6N	8.6	100KHz/0.25V	0.058	1.85
WRH6D28-100M	10	1KHz/0.25V	0.065	1.70
WRH6D28-120M	12	1KHz/0.25V	0.070	1.55
WRH6D28-150M	15	1KHz/0.25V	0.084	1.40
WRH6D28-180M	18	1KHz/0.25V	0.095	1.32
WRH6D28-220M	22	1KHz/0.25V	0.128	1.20
WRH6D28-270M	27	1KHz/0.25V	0.142	1.05
WRH6D28-330M	33	1KHz/0.25V	0.165	0.97

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH6D28-390M	39	1KHz/0.25V	0.210	0.86
WRH6D28-470M	47	1KHz/0.25V	0.238	0.80
WRH6D28-560M	56	1KHz/0.25V	0.277	0.73
WRH6D28-680M	68	1KHz/0.25V	0.304	0.65
WRH6D28-820M	82	1KHz/0.25V	0.390	0.60
WRH6D28-101M	100	1KHz/0.25V	0.535	0.54

WRH6D38 TYPE

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH6D38-3R3N	3.3	100KHz/0.25V	0.020	3.50
WRH6D38-5R0N	5	100KHz/0.25V	0.024	2.90
WRH6D38-6R2N	6.2	100KHz/0.25V	0.027	2.50
WRH6D38-7R4N	7.4	100KHz/0.25V	0.031	2.30
WRH6D38-8R7N	8.7	100KHz/0.25V	0.034	2.20
WRH6D38-100M	10	1KHz/0.25V	0.038	2.00
WRH6D38-120M	12	1KHz/0.25V	0.053	1.70
WRH6D38-150M	15	1KHz/0.25V	0.057	1.60
WRH6D38-180M	18	1KHz/0.25V	0.092	1.50
WRH6D38-220M	22	1KHz/0.25V	0.096	1.30
WRH6D38-270M	27	1KHz/0.25V	0.109	1.20
WRH6D38-330M	33	1KHz/0.25V	0.124	1.10
WRH6D38-390M	39	1KHz/0.25V	0.138	1.00
WRH6D38-470M	47	1KHz/0.25V	0.155	0.95
WRH6D38-560M	56	1KHz/0.25V	0.202	0.85
WRH6D38-680M	68	1KHz/0.25V	0.234	0.75
WRH6D38-820M	82	1KHz/0.25V	0.324	0.70
WRH6D38-101M	100	1KHz/0.25V	0.358	0.65

WRH8D28 TYPE

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH8D28-2R5N	2.5	100KHz/0.25V	0.016	5.40
WRH8D28-3R3N	3.3	100KHz/0.25V	0.019	4.80
WRH8D28-4R7N	4.7	100KHz/0.25V	0.022	4.00
WRH8D28-6R8N	6.8	100KHz/0.25V	0.025	3.20
WRH8D28-100M	10	1KHz/0.25V	0.036	2.70
WRH8D28-150M	15	1KHz/0.25V	0.053	2.20
WRH8D28-220M	22	1KHz/0.25V	0.075	1.80
WRH8D28-330M	33	1KHz/0.25V	0.125	1.40
WRH8D28-470M	47	1KHz/0.25V	0.150	1.25
WRH8D28-680M	68	1KHz/0.25V	0.240	0.96
WRH8D28-101M	100	1KHz/0.25V	0.360	0.78

WRH6D38 TYPE

Part No.	Inductance (μH)	L Test Condition	DC resistance (Ω)MAX	Rated DC current (A)MAX.
WRH8D43-3R9N	3.9	100KHz/0.25V	0.019	5.0
WRH8D43-4R7N	4.7	100KHz/0.25V	0.022	4.6
WRH8D43-6R8N	6.8	100KHz/0.25V	0.025	4.2
WRH8D43-100M	10	1KHz/0.25V	0.036	3.6
WRH8D43-150M	15	1KHz/0.25V	0.053	2.6
WRH8D43-220M	22	1KHz/0.25V	0.075	2.1
WRH8D43-330M	33	1KHz/0.25V	0.125	1.6
WRH8D43-470M	47	1KHz/0.25V	0.150	1.4
WRH8D43-680M	68	1KHz/0.25V	0.240	1.2
WRH8D43-101M	100	1KHz/0.25V	0.360	0.9