

Features:

- Compact, low profile with low DCR and high current
- Provides magnetic shielding against radiation
- Flat bottom provides reliable surface mounting
- Contact Stackpole for additional inductance values
- RoHS compliant, lead-free and halogen-free



Applications:

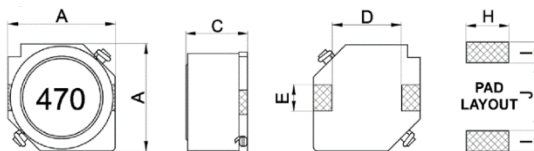
- GPS and PDAs
- Personal computers
- DC/DC converters

Inductance and Current Ranges		
Type/Code	Inductance (μ H)	Current Range (A)
LDRS2424	4.7 ~ 100	1.6 ~ 0.42
LDRS2828-LP	3.3 ~ 56	1.6 ~ 0.5
LDRS2828-MP	3.3 ~ 100	1.8 ~ 0.35
LDRS2828-HP	1 ~ 1000	2.2 ~ 0.13
LDRS4040	1 ~ 1500	7.8 ~ 0.22
LDRS4949-LP	6 ~ 1500	3.6 ~ 0.29
LDRS4949	2 ~ 150	10 ~ 1
LDRS4949-HP	1.2 ~ 220	13 ~ 1.3

Electrical specifications at 25°C.

Mechanical Specifications (LDRS2424, 2828, 4040)								
Type/Code	A	C	D	E	H	I	J	Unit
LDRS2424	0.236 $\pm$ 0.008 6.00 $\pm$ 0.20	0.110 $\pm$ 0.008 2.80 $\pm$ 0.20	0.157 4.00	0.079 2.00	0.087 2.20	0.059 1.50	0.157 4.00	inches mm
LDRS2828....-LP	0.276 $\pm$ 0.008 7.00 $\pm$ 0.20	0.110 $\pm$ 0.008 2.80 $\pm$ 0.20	0.157 4.00	0.079 2.00	0.087 2.20	0.059 1.50	0.157 4.00	inches mm
LDRS2828....-MP	0.276 $\pm$ 0.008 7.00 $\pm$ 0.20	0.118 $\pm$ 0.008 3.00 $\pm$ 0.20	0.157 4.00	0.079 2.00	0.087 2.20	0.059 1.50	0.157 4.00	inches mm
LDRS2828....-HP	0.276 $\pm$ 0.008 7.00 $\pm$ 0.20	0.126 $\pm$ 0.008 3.20 $\pm$ 0.20	0.157 4.00	0.079 2.00	0.087 2.20	0.059 1.50	0.157 4.00	inches mm
LDRS4040	0.398 $\pm$ 0.012 10.10 $\pm$ 0.30	0.177 $\pm$ 0.012 4.50 $\pm$ 0.30	0.236 6.00	0.118 3.00	0.126 3.20	0.098 2.50	0.220 5.60	inches mm

Mechanical Specifications (LDRS4949)



Type/Code	A	C	D	E	H	I	J	Unit
LDRS4949...-LP	0.492 ± 0.012 12.50 ± 0.30	0.217 ± 0.014 5.50 ± 0.35	0.339 8.60	0.118 3.00	0.126 3.20	0.098 2.50	0.339 8.60	inches mm
LDRS4949	0.492 ± 0.012 12.50 ± 0.30	0.256 ± 0.014 6.50 ± 0.35	0.339 8.60	0.118 3.00	0.126 3.20	0.098 2.50	0.339 8.60	inches mm
LDRS4949...-HP	0.492 ± 0.012 12.50 ± 0.30	0.295 ± 0.014 7.50 ± 0.35	0.339 8.60	0.118 3.00	0.126 3.20	0.098 2.50	0.339 8.60	inches mm

Electrical Specifications - LDRS2424

Part Number	Inductance μH	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.	
					I sat	I rms
LDRS2424MT4R7	4.7	20%	1KHz, 0.5V	0.036	1.6	2.5
LDRS2424MT6R8	6.8	20%	1KHz, 0.5V	0.052	1.5	2.2
LDRS2424MT100	10	20%	1KHz, 0.5V	0.068	1.3	1.8
LDRS2424MT150	15	20%	1KHz, 0.5V	0.1	1	1.4
LDRS2424MT220	22	20%	1KHz, 0.5V	0.12	0.77	1.3
LDRS2424MT330	33	20%	1KHz, 0.5V	0.18	0.69	1.1
LDRS2424MT470	47	20%	1KHz, 0.5V	0.27	0.59	0.92
LDRS2424MT560	56	20%	1KHz, 0.5V	0.33	0.51	0.85
LDRS2424MT680	68	20%	1KHz, 0.5V	0.39	0.5	0.78
LDRS2424MT101	100	20%	1KHz, 0.5V	0.62	0.42	0.64

Electrical Specifications – LDRS2828(LP)

Part Number	Inductance μH	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.	
					I sat	I rms
LDRS2828MT3R3-LP	3.3	20%	1KHz, 0.5V	0.037	1.6	1.6
LDRS2828MT4R7-LP	4.7	20%	1KHz, 0.5V	0.045	1.5	1.5
LDRS2828MT6R8-LP	6.8	20%	1KHz, 0.5V	0.059	1.3	1.3
LDRS2828MT100-LP	10	20%	1KHz, 0.5V	0.083	1.1	1.1
LDRS2828MT150-LP	15	20%	1KHz, 0.5V	0.13	0.88	0.88
LDRS2828MT220-LP	22	20%	1KHz, 0.5V	0.18	0.75	0.75
LDRS2828MT330-LP	33	20%	1KHz, 0.5V	0.24	0.65	0.65
LDRS2828MT470-LP	47	20%	1KHz, 0.5V	0.34	0.54	0.54
LDRS2828MT560-LP	56	20%	1KHz, 0.5V	0.42	0.5	0.45

Electrical Specifications – LDRS2828(MP)

Part Number	Inductance μH	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.	
					I sat	I rms
LDRS2828MT3R3-MP	3.3	20%	1KHz, 0.5V	0.023	1.8	1.8
LDRS2828MT4R7-MP	4.7	20%	1KHz, 0.5V	0.036	1.6	1.6
LDRS2828MT6R8-MP	6.8	20%	1KHz, 0.5V	0.041	1.5	1.5
LDRS2828MT100-MP	10	20%	1KHz, 0.5V	0.053	1.3	1.3
LDRS2828MT150-MP	15	20%	1KHz, 0.5V	0.084	1	1
LDRS2828MT220-MP	22	20%	1KHz, 0.5V	0.11	0.86	0.86
LDRS2828MT330-MP	33	20%	1KHz, 0.5V	0.16	0.65	0.65
LDRS2828MT470-MP	47	20%	1KHz, 0.5V	0.24	0.57	0.57
LDRS2828MT560-MP	56	20%	1KHz, 0.5V	0.28	0.53	0.6
LDRS2828MT680-MP	68	20%	1KHz, 0.5V	0.31	0.49	0.49
LDRS2828MT101-MP	100	20%	1KHz, 0.5V	0.45	0.35	0.35

Electrical Specifications – LDRS2828(HP)

Part Number	Inductance μH	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
LDRS2828MT1R0-HP	1	20%	1KHz, 0.5V	0.019	2.2
LDRS2828MT2R2-HP	2.2	20%	1KHz, 0.5V	0.021	2
LDRS2828MT3R3-HP	3.3	20%	1KHz, 0.5V	0.023	1.9
LDRS2828MT3R9-HP	3.9	20%	1KHz, 0.5V	0.029	1.85
LDRS2828MT4R7-HP	4.7	20%	1KHz, 0.5V	0.036	1.7
LDRS2828MT5R6-HP	5.6	20%	1KHz, 0.5V	0.039	1.65
LDRS2828MT6R8-HP	6.8	20%	1KHz, 0.5V	0.041	1.6
LDRS2828MT8R2-HP	8.2	20%	1KHz, 0.5V	0.049	1.5
LDRS2828MT100-HP	10	20%	1KHz, 0.5V	0.053	1.4
LDRS2828MT120-HP	12	20%	1KHz, 0.5V	0.071	1.2
LDRS2828MT150-HP	15	20%	1KHz, 0.5V	0.075	1.1
LDRS2828MT180-HP	18	20%	1KHz, 0.5V	0.099	1
LDRS2828MT220-HP	22	20%	1KHz, 0.5V	0.11	0.96
LDRS2828MT270-HP	27	20%	1KHz, 0.5V	0.15	0.85

Electrical Specifications – LDRS2828(HP) (cont.)

Part Number	Inductance μH	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
LDRS2828MT330-HP	33	20%	1KHz, 0.5V	0.16	0.75
LDRS2828MT390-HP	39	20%	1KHz, 0.5V	0.23	0.7
LDRS2828MT470-HP	47	20%	1KHz, 0.5V	0.24	0.67
LDRS2828MT560-HP	56	20%	1KHz, 0.5V	0.3	0.6
LDRS2828MT680-HP	68	20%	1KHz, 0.5V	0.31	0.59
LDRS2828MT820-HP	82	20%	1KHz, 0.5V	0.424	0.49
LDRS2828MT101-HP	100	20%	1KHz, 0.5V	0.45	0.45
LDRS2828MT121-HP	120	20%	1KHz, 0.5V	0.62	0.4
LDRS2828MT151-HP	150	20%	1KHz, 0.5V	0.65	0.37
LDRS2828MT181-HP	180	20%	1KHz, 0.5V	1.02	0.3
LDRS2828MT221-HP	220	20%	1KHz, 0.5V	1.05	0.29
LDRS2828MT271-HP	270	20%	1KHz, 0.5V	1.53	0.24
LDRS2828MT331-HP	330	20%	1KHz, 0.5V	1.67	0.22
LDRS2828MT391-HP	390	20%	1KHz, 0.5V	1.99	0.21
LDRS2828MT471-HP	470	20%	1KHz, 0.5V	2.05	0.2
LDRS2828MT561-HP	560	20%	1KHz, 0.5V	3.1	0.17
LDRS2828MT681-HP	680	20%	1KHz, 0.5V	3.15	0.16
LDRS2828MT821-HP	820	20%	1KHz, 0.5V	4.5	0.14
LDRS2828MT102-HP	1000	20%	1KHz, 0.5V	4.78	0.13

Electrical Specifications – LDRS4040

Part Number	Inductance μH	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
LDRS4040MT1R0	1	20%	1KHz, 0.5V	0.012	7.8
LDRS4040MT1R5	1.5	20%	1KHz, 0.5V	0.014	5.8
LDRS4040MT2R2	2.2	20%	1KHz, 0.5V	0.015	5.6
LDRS4040MT3R3	3.3	20%	1KHz, 0.5V	0.016	5.1
LDRS4040MT3R9	3.9	20%	1KHz, 0.5V	0.018	4.1
LDRS4040MT4R7	4.7	20%	1KHz, 0.5V	0.02	3.7
LDRS4040MT5R6	5.6	20%	1KHz, 0.5V	0.022	3.4
LDRS4040MT6R8	6.8	20%	1KHz, 0.5V	0.025	3.2
LDRS4040MT8R2	8.2	20%	1KHz, 0.5V	0.027	3.1
LDRS4040MT100	10	20%	1KHz, 0.5V	0.036	3
LDRS4040MT120	12	20%	1KHz, 0.5V	0.033	2.5
LDRS4040MT150	15	20%	1KHz, 0.5V	0.047	2.4
LDRS4040MT180	18	20%	1KHz, 0.5V	0.052	2.2
LDRS4040MT220	22	20%	1KHz, 0.5V	0.059	2.1

Electrical Specifications – LDRS4040

Part Number	Inductance μ H	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
LDRS4040MT270	27	20%	1KHz, 0.5V	0.073	1.7
LDRS4040MT330	33	20%	1KHz, 0.5V	0.082	1.6
LDRS4040MT390	39	20%	1KHz, 0.5V	0.099	1.5
LDRS4040MT470	47	20%	1KHz, 0.5V	0.1	1.4
LDRS4040MT560	56	20%	1KHz, 0.5V	0.11	1.3
LDRS4040MT680	68	20%	1KHz, 0.5V	0.14	1.2
LDRS4040MT820	82	20%	1KHz, 0.5V	0.19	1.1
LDRS4040MT101	100	20%	1KHz, 0.5V	0.2	1
LDRS4040MT121	120	20%	1KHz, 0.5V	0.28	0.8
LDRS4040MT151	150	20%	1KHz, 0.5V	0.35	0.79
LDRS4040MT181	180	20%	1KHz, 0.5V	0.42	0.69
LDRS4040MT221	220	20%	1KHz, 0.5V	0.47	0.65
LDRS4040MT271	270	20%	1KHz, 0.5V	0.62	0.55
LDRS4040MT331	330	20%	1KHz, 0.5V	0.68	0.54
LDRS4040MT391	390	20%	1KHz, 0.5V	0.9	0.49
LDRS4040MT471	470	20%	1KHz, 0.5V	1.03	0.47
LDRS4040MT561	560	20%	1KHz, 0.5V	1.3	0.4
LDRS4040MT681	680	20%	1KHz, 0.5V	1.6	0.38
LDRS4040MT821	820	20%	1KHz, 0.5V	1.8	0.33
LDRS4040MT102	1000	20%	1KHz, 0.5V	2.8	0.32
LDRS4040MT152	1500	20%	1KHz, 0.5V	3.4	0.22

Electrical Specifications – LDRS4949(LP)

Part Number	Inductance μ H	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.	
					I sat	I rms
LDRS4949NT6R0-LP	6.0	30%	1KHz, 0.5V	0.0164	3.6	4.9
LDRS4949MT100-LP	10	20%	1KHz, 0.5V	0.0215	3.4	4.3
LDRS4949MT150-LP	15	20%	1KHz, 0.5V	0.0259	2.8	3.9
LDRS4949MT220-LP	22	20%	1KHz, 0.5V	0.0338	2.3	3.4
LDRS4949MT330-LP	33	20%	1KHz, 0.5V	0.0415	1.9	3.1
LDRS4949MT470-LP	47	20%	1KHz, 0.5V	0.0618	1.6	2.5
LDRS4949MT560-LP	56	20%	1KHz, 0.5V	0.075	1.45	2.3
LDRS4949MT680-LP	68	20%	1KHz, 0.5V	0.0832	1.3	2.2
LDRS4949MT101-LP	100	20%	1KHz, 0.5V	0.117	1.1	1.8
LDRS4949MT151-LP	150	20%	1KHz, 0.5V	0.19	0.88	1.4
LDRS4949MT221-LP	220	20%	1KHz, 0.5V	0.27	0.72	1.2
LDRS4949MT331-LP	330	20%	1KHz, 0.5V	0.41	0.59	1
LDRS4949MT471-LP	470	20%	1KHz, 0.5V	0.52	0.49	0.88
LDRS4949MT681-LP	680	20%	1KHz, 0.5V	0.76	0.43	0.73
LDRS4949MT102-LP	1000	20%	1KHz, 0.5V	1.12	0.34	0.6
LDRS4949MT152-LP	1500	20%	1KHz, 0.5V	1.73	0.29	0.48

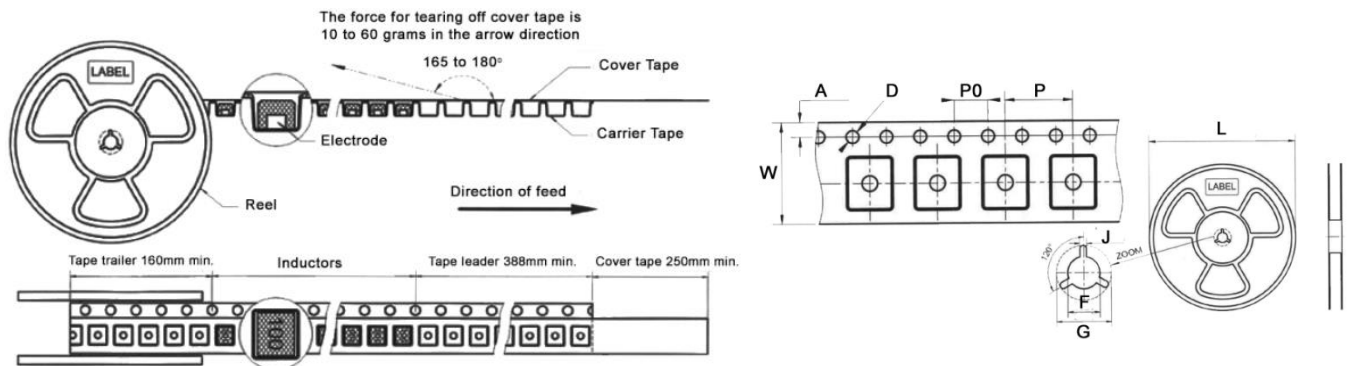
Electrical Specifications – LDRS4949

Part Number	Inductance μ H	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.	
					I sat	I rms
LDRS4949NT2R0	2.0	30%	1KHz, 0.5V	0.0117	10	6.2
LDRS4949NT4R2	4.2	30%	1KHz, 0.5V	0.015	7.3	5.5
LDRS4949MT7R0	7.0	20%	1KHz, 0.5V	0.0177	5.7	5
LDRS4949MT100	10	20%	1KHz, 0.5V	0.0202	5	4.8
LDRS4949MT150	15	20%	1KHz, 0.5V	0.0237	4.2	4.4
LDRS4949MT220	22	20%	1KHz, 0.5V	0.0316	3.5	3.8
LDRS4949MT330	33	20%	1KHz, 0.5V	0.0406	2.8	3.4
LDRS4949MT470	47	20%	1KHz, 0.5V	0.0578	2.4	2.8
LDRS4949MT560	56	20%	1KHz, 0.5V	0.075	2.2	2.5
LDRS4949MT680	68	20%	1KHz, 0.5V	0.0787	2	2.4
LDRS4949MT101	100	20%	1KHz, 0.5V	0.123	1.6	1.9
LDRS4949MT121	120	20%	1KHz, 0.5V	0.185	1.3	1.5
LDRS4949MT151	150	20%	1KHz, 0.5V	0.273	1	1.2

Electrical Specifications – LDRS4949(HP)

Part Number	Inductance μ H	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.	
					I sat	I rms
LDRS4949NT1R2-HP	1.2	30%	1KHz, 0.5V	0.0069	13	8.2
LDRS4949NT2R0-HP	2.0	30%	1KHz, 0.5V	0.008	11	-
LDRS4949NT2R7-HP	2.7	30%	1KHz, 0.5V	0.0094	10	7
LDRS4949NT3R3-HP	3.3	30%	1KHz, 0.5V	0.01	9.5	6.8
LDRS4949NT3R9-HP	3.9	30%	1KHz, 0.5V	0.0104	9	6.7
LDRS4949NT5R6-HP	5.6	30%	1KHz, 0.5V	0.0116	7.8	6.3
LDRS4949NT6R8-HP	6.8	30%	1KHz, 0.5V	0.0131	7.2	5.9
LDRS4949MT100-HP	10	20%	1KHz, 0.5V	0.0156	5.5	5.4
LDRS4949MT150-HP	15	20%	1KHz, 0.5V	0.0184	4.7	5
LDRS4949MT220-HP	22	20%	1KHz, 0.5V	0.263	4	4
LDRS4949MT330-HP	33	20%	1KHz, 0.5V	0.0395	3.2	3.4
LDRS4949MT390-HP	39	20%	1KHz, 0.5V	0.044	3	3.2
LDRS4949MT470-HP	47	20%	1KHz, 0.5V	0.0528	2.7	3
LDRS4949MT560-HP	56	20%	1KHz, 0.5V	0.067	2.3	2.6
LDRS4949MT680-HP	68	20%	1KHz, 0.5V	0.0778	2	2.4
LDRS4949MT101-HP	100	20%	1KHz, 0.5V	0.125	1.9	1.9
LDRS4949MT151-HP	150	20%	1KHz, 0.5V	0.175	1.6	1.6
LDRS4949MT221-HP	220	20%	1KHz, 0.5V	0.258	1.3	1.3

Packaging Specifications



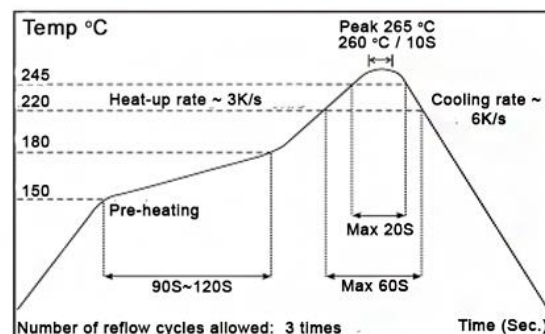
Type / Code	A	D	P0	P	W	F	G	J	L	Unit
LDRS2424	0.069 $\pm$ 0.004 1.75 $\pm$ 0.10	0.059 $\pm$ 0.004 1.50 $\pm$ 0.10	0.157 $\pm$ 0.004 4.00 $\pm$ 0.10	0.472 12.00	0.630 16.00	0.512 $\pm$ 0.039 13.00 $\pm$ 1.00	0.906 $\pm$ 0.039 23.00 $\pm$ 1.00	0.098 $\pm$ 0.020 2.50 $\pm$ 0.50	12.992 $\pm$ 7.008 330.00 $\pm$ 178.00	Inches mm
LDRS2828....-LP	0.069 $\pm$ 0.004 1.75 $\pm$ 0.10	0.059 $\pm$ 0.004 1.50 $\pm$ 0.10	0.157 $\pm$ 0.004 4.00 $\pm$ 0.10	0.472 12.00	0.630 16.00	0.512 $\pm$ 0.039 13.00 $\pm$ 1.00	0.906 $\pm$ 0.039 23.00 $\pm$ 1.00	0.098 $\pm$ 0.020 2.50 $\pm$ 0.50	12.992 $\pm$ 7.008 330.00 $\pm$ 178.00	Inches mm
LDRS2828....-MP	0.069 $\pm$ 0.004 1.75 $\pm$ 0.10	0.059 $\pm$ 0.004 1.50 $\pm$ 0.10	0.157 $\pm$ 0.004 4.00 $\pm$ 0.10	0.472 12.00	0.630 16.00	0.512 $\pm$ 0.039 13.00 $\pm$ 1.00	0.906 $\pm$ 0.039 23.00 $\pm$ 1.00	0.098 $\pm$ 0.020 2.50 $\pm$ 0.50	12.992 $\pm$ 7.008 330.00 $\pm$ 178.00	Inches mm
LDRS2828....-HP	0.069 $\pm$ 0.004 1.75 $\pm$ 0.10	0.059 $\pm$ 0.004 1.50 $\pm$ 0.10	0.157 $\pm$ 0.004 4.00 $\pm$ 0.10	0.472 12.00	0.630 16.00	0.512 $\pm$ 0.039 13.00 $\pm$ 1.00	0.906 $\pm$ 0.039 23.00 $\pm$ 1.00	0.098 $\pm$ 0.020 2.50 $\pm$ 0.50	12.992 $\pm$ 7.008 330.00 $\pm$ 178.00	Inches mm
LDRS4040	0.069 $\pm$ 0.004 1.75 $\pm$ 0.10	0.059 $\pm$ 0.004 1.50 $\pm$ 0.10	0.157 $\pm$ 0.004 4.00 $\pm$ 0.10	0.630 16.00	0.945 24.00	0.512 $\pm$ 0.039 13.00 $\pm$ 1.00	0.906 $\pm$ 0.039 23.00 $\pm$ 1.00	0.098 $\pm$ 0.020 2.50 $\pm$ 0.50	12.992 $\pm$ 7.008 330.00 $\pm$ 178.00	Inches mm
LDRS4949....-LP	0.069 $\pm$ 0.004 1.75 $\pm$ 0.10	0.059 $\pm$ 0.004 1.50 $\pm$ 0.10	0.157 $\pm$ 0.004 4.00 $\pm$ 0.10	0.630 16.00	0.945 24.00	0.512 $\pm$ 0.039 13.00 $\pm$ 1.00	0.906 $\pm$ 0.039 23.00 $\pm$ 1.00	0.098 $\pm$ 0.020 2.50 $\pm$ 0.50	12.992 $\pm$ 7.008 330.00 $\pm$ 178.00	Inches mm
LDRS4949	0.069 $\pm$ 0.004 1.75 $\pm$ 0.10	0.059 $\pm$ 0.004 1.50 $\pm$ 0.10	0.157 $\pm$ 0.004 4.00 $\pm$ 0.10	0.630 16.00	0.945 24.00	0.512 $\pm$ 0.039 13.00 $\pm$ 1.00	0.906 $\pm$ 0.039 23.00 $\pm$ 1.00	0.098 $\pm$ 0.020 2.50 $\pm$ 0.50	12.992 $\pm$ 7.008 330.00 $\pm$ 178.00	Inches mm
LDRS4949....-HP	0.069 $\pm$ 0.004 1.75 $\pm$ 0.10	0.059 $\pm$ 0.004 1.50 $\pm$ 0.10	0.157 $\pm$ 0.004 4.00 $\pm$ 0.10	0.630 16.00	0.945 24.00	0.512 $\pm$ 0.039 13.00 $\pm$ 1.00	0.906 $\pm$ 0.039 23.00 $\pm$ 1.00	0.098 $\pm$ 0.020 2.50 $\pm$ 0.50	12.992 $\pm$ 7.008 330.00 $\pm$ 178.00	Inches mm

Environmental Specifications - General	
Item	Specification
Shelf Storage Conditions	Temperature range: 25±3°C. Humidity: <80% relative humidity. Recommended product should be used within six months from the time of delivery.

Environmental Tests		
Test	Test Specification	Test Condition
High Temperature Storage Test	No case deformation or change in appearance. $\Delta L/L \leq 10\%$	Temperature 85±2°C Time: 48 ± 2 hours Tested after 1 hour at room temperature
Low Temperature Storage Test		Temperature -40±2°C Time: 48 ± 2 hours Tested after 1 hour at room temperature
Humidity Test		Temperature 40±2°C, 90~95% relative humidity Time: 96 ± 2 hours Tested after 1 hour at room temperature
Thermal Shock Test		First -25°C 30 minutes, then 25°C 10 minutes, last 85°C 30 minutes, as 1 cycle. Go through 5 cycles. Tested after 1 hour at room temperature

Mechanical Tests		
Test	Test Specification	Test Condition
Solderability Test	Terminal area must have 90% minimum solder coverage	Product with lead-free terminal Dip pads in flux then dip in solder pot (SnCuNi) at 245±5°C for 3 seconds
Resistance to Soldering Heat	No case deformation or change in appearance	Flux should cover the whole of the sample before heating, then be preheated for about 2 minutes over temperature of 130~150°C. immersing to 260±5°C for 10 seconds
Vibration Test	No case deformation or change in appearance $\Delta L/L \leq 10\%$	Apply frequency 10~55Hz 1.5mm amplitude in each of perpendicular direction for 2 hours
Shock Resistance		Drop down with 981m/s ² (100G) shock attitude upon a rubber block method shock testing machine for 1 time in each of three orientations.

Reflow Chart:



RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

RoHS Compliance Status						
Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)
LDRS	Shielded SMD Power Inductor	SMD	YES	100% Matte Sn	Aug-05	05/31

“Conflict Metals” Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the “conflict region” of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to “REACH”

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, “The Registration, Evaluation, Authorization and Restriction of Chemicals”, otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

How to Order

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Product Series

LDRS

Size

Code	Dimension (mm)
2424	6 x 2.8
2828 (LP)	7 x 2.8
2828 (MP)	7 x 3
2828 (HP)	7 x 3.2
4040	10.1 x 4.5
4949 (LP)	12.5 x 5.5
4949	12.5 x 6.5
4949 (HP)	12.5 x 7.5

Tolerance

Code	Tol
M	20%
N	30%

Packaging

Code	Description	Size	Quantity
T	13" Tape and Reel	2424, 2828	1,000
		4040	750
		4949(LP), 4949	500
		4949(HP)	350

Inductance

Code	Inductance
1R1	1.1 uH
470	47 uH
101	100 uH

Special

Code	Description
(blank)	Standard
LP	Low Profile
MP	Mid Profile
HP	High Profile

Legacy Part Number:

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M

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Product Series

PCDR

Code

Dimensions (mm)

Tolerance

Code	Tol
M	20%
N	30%

Packaging

Code	Description	Size	Quantity
T	13" Tape and Reel	0628, 0728, 0730, 0732, 0745	1,000
		1045	750
		1255, 1265	500
		1275	350

Inductance

Code	Inductance
1R1	1.1 uH
470	47 uH
101	100 uH

Legacy Part Number: