



Vishay Dale

Monolithic Chip Inductors



MECHANICAL SPECIFICATIONS

Solderability: 90 % coverage after 5 s dip in 235 °C solder following 60 s preheat at 120 °C to 150 °C and type R flux dip **Resistance to Solder Heat:** 10 s in 260 °C solder, after preheat and flux per above **Termination:** 100 % Sn **Terminal Strength:** 0.6 kg for 30 s

Beam Strength: 1.0 kg

STANDARD ELECTRICAL SPECIFICATIONS

FEATURES

- High reliability
- Surface mountable
- Magnetically self shielded
- Nickel barrier plating virtually eliminates silver migration
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -55 °C to +125 °C Thermal Shock: -40 °C to +85 °C Humidity: 90 % RH at 40 °C, 1000 h at full rated current Load Life: 85 °C for 1000 h at full rated current

			TEST FREQ.			DCR	RATED
INDUCTANCE		THICKNESS "D"	(MHz)	Q	SRF MIN.	MAX.	DC CURRENT
(µH)	TOL.	(INCHES [mm])	L AND Q	MIN.	(MHz)	(Ω)	(mA)
0.047	20 %	0.035 ± 0.008 [0.90 ± 0.2]	50	15	320	0.20	300
0.056	20 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	50	15	300	0.20	300
0.068	20 %	0.035 ± 0.008 [0.90 ± 0.2]	50	15	280	0.20	300
0.082	20 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	50	15	255	0.20	300
0.10	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	20	279	0.30	250
0.12	10 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	25	20	253	0.30	250
0.15	10 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	25	20	230	0.40	250
0.18	10 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	25	20	213	0.40	250
0.22	10 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	25	20	196	0.50	250
0.27	10 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	25	20	173	0.50	250
0.33	10 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	25	20	167	0.55	250
0.39	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	25	156	0.65	200
0.47	10 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	25	25	144	0.65	200
0.56	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	25	133	0.75	150
0.68	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	25	121	0.80	150
0.82	10 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	25	25	115	1.00	150
1.0	10 %	0.035 ± 0.008 [0.90 ± 0.2]	10	45	87	0.40	50
1.2	10 %	0.035 ± 0.008 [0.90 ± 0.2]	10	45	75	0.50	50
1.5	10 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	10	45	69	0.50	50
1.8	10 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	10	45	64	0.60	50
2.2	10 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	10	45	58	0.65	30
2.7	10 %	0.049 ± 0.008 [1.25 ± 0.2]	10	45	52	0.75	30
3.3	10 %	0.049 ± 0.008 [1.25 ± 0.2]	10	45	48	0.80	30
3.9	10 %	0.049 ± 0.008 [1.25 ± 0.2]	10	45	44	0.90	30
4.7	10 %	0.049 ± 0.008 [1.25 ± 0.2]	10	45	41	1.00	30
5.6	10 %	0.049 ± 0.008 [1.25 ± 0.2]	4	45	37	0.90	15
6.8	10 %	0.049 ± 0.008 [1.25 ± 0.2]	4	45	34	1.00	15
8.2	10 %	0.049 ± 0.008 [1.25 ± 0.2]	4	45	30	1.10	15
10	10 %	0.049 ± 0.008 [1.25 ± 0.2]	2 2	50	28	1.15	15
12	10 %	0.049 ± 0.008 [1.25 ± 0.2]		50	26	1.25	15
15	10 %	0.049 ± 0.008 [1.25 ± 0.2]	1	30	22	0.80	5
18	10 %	0.049 ± 0.008 [1.25 ± 0.2]	1	30	21	0.90	5 5 5
22	10 %	0.049 ± 0.008 [1.25 ± 0.2]	1	30	19	1.10	5
27	10 %	0.049 ± 0.008 [1.25 ± 0.2]	1	30	17	1.15	
33	10 %	0.049 ± 0.008 [1.25 ± 0.2]	0.4	30	13	1.25	5
DESCRIPT	ION						
ILSB-0805		3.3 μH ±	10 %	ER			e3
MODEL	INDUC	TANCE VALUE INDUCTAN	CE TOLERANCE	PACKAGE	CODE JED	EC® LEAD (Pt	o)-FREE STANDARD
GLOBAL P	ART NUM	IBER					
Ι	L S	B 0 8	0 5	E R	3	R 3	к
				PACKAGE			TOL.
			CODE	IN	VALUE	IUL.	

Pb-free

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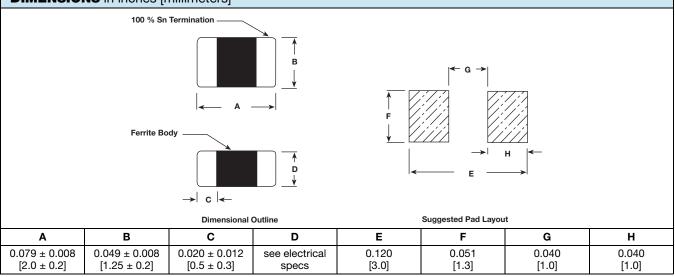
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ILSB-0805

Vishay Dale

DIMENSIONS in inches [millimeters]



TAPE AND REEL SPECIFICATIONS 0805 SIZE PER EIA-481-1 in inches [millimeters]							
τ→ ←	A ₀	$0.059 \pm 0.004 \ [1.50 \pm 0.1]$					
$\longrightarrow P_2 \leftarrow E_1$	B ₀	0.092 ± 0.004 [2.34 ± 0.1]					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	D ₀	0.059 + 0.005/- 0.000 [1.5 + 0.127]					
	D ₁	0.039 min. [1.0 min.]					
$\uparrow \qquad \qquad$	E ₁	0.069 ± 0.004 [1.75 ± 0.1]					
	F	0.138 ± 0.002 [3.50 ± 0.05]					
T1	K ₀	0.049 ± 0.002 [1.24 ± 0.05]					
ØC ØN	P ₀	0.157 ± 0.004 [4.00 ± 0.1]					
	P ₁	0.157 ± 0.004 [4.00 ± 0.1]					
	P ₂	0.079 ± 0.002 [2.00 ± 0.05]					
	W	0.327 max. [8.3 max.]					
	Т	0.008 ± 0.002 [0.2 ± 0.05]					
	А	7.000 ± 0.079 [178 ± 2.0]					
Empty Trailer Components Empty Tape Cover Tape Leader	Ν	2.500 [63.5]					
	С	0.512 ± 0.020 [13.00 ± 0.50]					
	W ₁	0.315 + 0.059/- 0.000 [8.00 + 1.5]					
> 160 mm Minimum	T ₁	0.079 ± 0.002 [2.00 ± 0.05]					



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