

ILSB0805ERR56K Datasheet

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DiGi Electronics Part Number	ILSB0805ERR56K-DG
Manufacturer	Vishay Dale
Manufacturer Product Number	ILSB0805ERR56K
Description	FIXED IND 560NH 150MA 750MOHM SM
Detailed Description	560 nH Shielded Multilayer Inductor 150 mA 750mO hm Max 0805 (2012 Metric)

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
ILSB0805ERR56K	Vishay Dale
Series:	Product Status:
ILSB-0805	Active
Туре:	Material - Core:
Multilayer	Ferrite
Inductance:	Tolerance:
560 nH	±10%
Current Rating (Amps):	Current - Saturation (Isat):
150 mA	-
Shielding:	DC Resistance (DCR):
Shielded	750mOhm Max
Q @ Freq:	Frequency - Self Resonant:
25 @ 25MHz	133MHz
Ratings:	Operating Temperature:
-	-55°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
25 MHz	Surface Mount
Package / Case:	Supplier Device Package:
0805 (2012 Metric)	0805 (2012 Metric)
Size / Dimension:	Height - Seated (Max):
0.079" L x 0.049" W (2.00mm x 1.25mm)	0.043" (1.10mm)

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.8000	

ILSB-0805 Vishay Dale



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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 www.vishay.com/doc?99912

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.			000	DATED
NDUCTANCE		THICKNES		(MHz)	Q	SRF MIN.	DCR MAX.	RATED DC CURRENT
(µH)	TOL.	(INCHES			MIN.	(MHz)	(Ω)	(mA)
0.047	20 %	0.035 ± 0.008		50	15	320	0.20	300
0.056	20 %	0.035 ± 0.008 0.035 ± 0.008		50	15	300	0.20	300
0.068	20 %	0.035 ± 0.008		50	15	280	0.20	300
0.082	20 %	0.035 ± 0.008		50	15	255	0.20	300
0.10	10 %	0.035 ± 0.008		25	20	279	0.30	250
0.12	10 %	0.035 ± 0.008		25	20	253	0.30	250
0.15	10 %	0.035 ± 0.008		25	20	230	0.40	250
0.18	10 %	0.035 ± 0.008		25	20	213	0.40	250
0.22	10 %	0.035 ± 0.008		25	20	196	0.50	250
0.27	10 %	0.035 ± 0.008		25	20	173	0.50	250
0.33	10 %	0.035 ± 0.008		25	20	167	0.55	250
0.39	10 %	0.035 ± 0.008		25	25	156	0.65	200
0.47	10 %	0.035 ± 0.008		25	25	144	0.65	200
0.56	10 %	0.035 ± 0.008		25	25	133	0.75	150
0.68	10 %	0.035 ± 0.008		25	25	121	0.80	150
0.82	10 %	0.035 ± 0.008		25	25	115	1.00	150
1.0	10 %	0.035 ± 0.008		10	45	87	0.40	50
1.2	10 %	0.035 ± 0.008		10	45	75	0.50	50
1.5	10 %	0.035 ± 0.008		10	45	69	0.50	50
1.8	10 %	0.035 ± 0.008		10	45	64	0.60	50
2.2	10 %	0.035 ± 0.008	0.90 ± 0.2	10	45	58	0.65	30
2.7	10 %	0.049 ± 0.008		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	50	28	1.15	15
12	10 %	0.049 ± 0.008	[1.25 ± 0.2]	2	50	26	1.25	15
15	10 %	0.049 ± 0.008		1	30	22	0.80	5
18	10 %	0.049 ± 0.008		1	30	21	0.90	5 5 5
22	10 %	0.049 ± 0.008		1	30	19	1.10	5
27	10 %	0.049 ± 0.008		1	30	17	1.15	5
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	INDUCTANC	E TOLERANCE	PACKAGE	CODE JED	EC [®] LEAD (Pt)-FREE STANDAR
GLOBAL P	ART NUN	IBER						
Γ	L S	В 0	8	0 5	E R	3	R 3	к
			SIZE		PACKAGE			TOL.
		_ T	31/F		FAUNAGE	IN	DUCTANCE	IUL.

Revision: 10-Jun-15

1 For technical questions, contact: <u>magnetics@vishay.com</u> Document Number: 34028

For technical questions, contact: <u>magnetics@vishay.com</u>



RoHS

COMPLIANT

HALOGEN

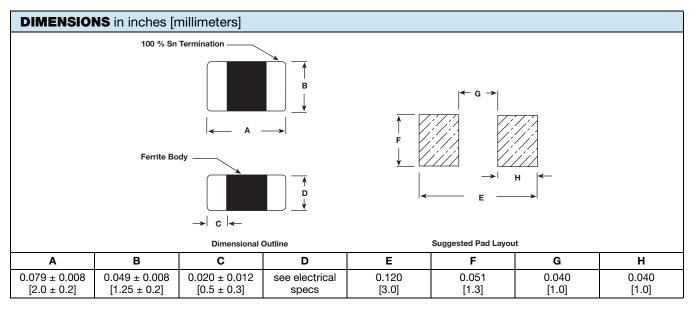
FREE



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ILSB-0805

Vishay Dale



TAPE AND REEL SPECIFICATIONS 0805 SIZE PER EIA-481-1 in i	nches	[millimeters]
τ→ ←	A ₀	$0.059 \pm 0.004 \ [1.50 \pm 0.1]$
$ P_2 \leftarrow E_1 $	B ₀	0.092 ± 0.004 [2.34 ± 0.1]
	D ₀	0.059 + 0.005/- 0.000 [1.5 + 0.127]
	D ₁	0.039 min. [1.0 min.]
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	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]
	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 390 mm Minimum -	T ₁	$0.079 \pm 0.002 \ [2.00 \pm 0.05]$

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