Vishay Dale

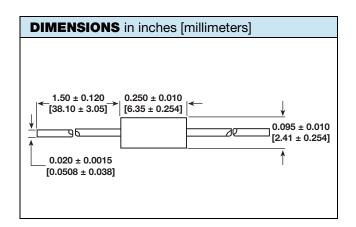


Inductors, Military, MIL-PRF-15305 Qualified, Type LT, Molded, Shielded, Miniature, Axial Leaded



INDUCTANCE RANGE AND MILITARY STANDARD								
MILITARY STANDARD	INDUCTANCE RANGE (µH)		CLASSIFICATION		MATERIAL			
STANDARD	FROM	то	GRADE	CLASS	CORE	SHIELD		
MS21426	1.2	100	1	Α	Powered Iron	Powered Iron		

ENVIRONMENTAL PERFORMANCE						
TEST	CONDITIONS	SPECIFICATIONS				
Barometric Pressure	С	MIL-STD-202, method 105				
Thermal Shock	A-1	MIL-STD-202, method 107				
Flammability	-	MIL-STD-202, method 111				
Overload	-	MIL-PRF-15305				
Low Temperature Storage	-	MIL-PRF-15305				
Resistance to Soldering Heat	Α	MIL-STD-202, method 210				
Resistance to Solvents	-	MIL-STD-202, method 215				



FEATURES

- Flame retardant coating
- · Electromagnetic shield
- Small package for a shielded inductor
- Epoxy molded construction provides superior moisture protection
- Precision performance, excellent reliability, sturdy construction

ELECTRICAL SPECIFICATIONS

Inductance Tolerance: ± 10 % standard

MIL-STD-202, method 302, test condition B

Dielectric Withstanding Voltage: 200 V_{AC} per

MIL-STD-202, method 301 (sea level)

Percent Coupling: 3 % maximum per MIL-PRF-15305 Operating Temperature Range: - 55 °C to + 105 °C

MECHANICAL SPECIFICATIONS

Terminal Strength: 3 pounds pull per MIL-STD-202, method 211, test condition A except 180° rotation for a total of 540° C

Weight: 0.30 g maximum

MATERIAL SPECIFICATIONS

Encapsulant: Epoxy

Standard Terminal: #24 AWG tinned copper

TEST EQUIPMENT (1)

- H/P 4342A Q-meter
- Measurements corporation megacycle meter, model 59
- Wheatstone bridge

Note

(1) Test procedures per MIL-PRF-15305

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MODEL	IND. (µH)	TOL. (%)	MILITARY STANDARD	MILITARY TYPE	Q MIN.	TEST FREQ. L AND Q (MHz)	SRF MIN. (MHz) ⁽¹⁾	DCR MAX.	RATED DC CURREI (mA) ⁽²⁾	ΝT
				LT10K						
	1.2	± 10	- 14	531	40	7.9	130	0.73	247	
	1.5	± 10	- 15	532	41	7.9	115	0.86	228	
	1.8	± 10	- 16	533	43	7.9	105	0.95	217	
	2.2	± 10	- 17	534	45	7.9	95	1.1	202	
	2.7	± 10	- 18	535	48	7.9	90	1.2	193	
	3.3	± 10	- 19	536	49	7.9	80	1.3	185	
	3.9	± 10	- 20	537	50	7.9	75	1.5	173	
	4.7	± 10	- 21	538	53	7.9	70	2.4	136	
	5.6	± 10	- 22	539	54	7.9	60	2.9	124	
	6.8	± 10	- 23	540	55	7.9	55	3.2	118	
	8.2	± 10	- 24	541	55	7.9	53	3.6	111	
MS21426	10.0	± 10	- 25	542	57	7.9	50	4.0	106	
	12.0	± 10	- 26	543	36	2.5	35	3.0	122	
	15.0	± 10	- 27	544	38	2.5	30	3.4	115	
	18.0	± 10	- 28	545	40	2.5	26	3.8	108	
	22.0	± 10	- 29	546	40	2.5	24	4.9	96	
	27.0	± 10	- 30	547	40	2.5	21	5.8	88	
	33.0	± 10	- 31	548	41	2.5	20	6.5	83	
	39.0	± 10	- 32	549	42	2.5	19	7.9	75	
	47.0	± 10	- 33	550	44	2.5	16	9.3	69	
	56.0	± 10	- 34	551	44	2.5	15	11	64	
	68.0	± 10	- 35	552	45	2.5	13	12	61	
	82.0	± 10	- 36	553	45	2.5	11	13	59	
	100.0	± 10	- 37	554	40	2.5	10.5	16.8	51	

Notes

⁽²⁾ Rated DC current: Based on the maximum temperature rise not to exceed 15 °C at + 90 °C ambient

DESCRIPTION - MILITARY PART NUMBER							
MS21426	-14		LT	10	K	531	
MILITARY STANDARD	INDUCTANCE VALUE	OR	TYPE	GRADE AND CLASS	FAMILY	ID NUMBER	

Note

• Listing of military standard does not imply qualification. Contact factory for latest government QPL information

GLOBAL PART NUMBER							
MS	PRODUCT FAMILY	- 1 4 INDUCTANCE VALUE	PACKAGE CODE				

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⁽¹⁾ Measured with full length lead

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Vishay

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