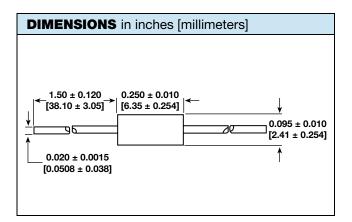


# Inductors, Military, MIL-PRF-15305 Qualified, Type LT, Molded, Shielded, Miniature, Axial Leaded

0.0000	

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

Insulation Resistance: 1000 M $\Omega$  minimum per MIL-STD-202, method 302, test condition B

Dielectric Withstanding Voltage: 200 V<sub>AC</sub> 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  $^\circ\text{C}$ 

Weight: 0.30 g maximums

#### **MATERIAL SPECIFICATIONS**

Encapsulant: Epoxy

Standard Terminal: #24 AWG tinned copper

#### **TEST EQUIPMENT**<sup>(1)</sup>

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

#### Note

<sup>(1)</sup> Test procedures per MIL-PRF-15305



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

STANDARD ELECTRICAL SPECIFICATIONS										
MODEL	IND. (µH)	TOL. (%)	MILITARY STANDARD	MILITARY TYPE	Q MIN.	TEST FREQ. L AND Q (MHz)	SRF MIN. (MHz) <sup>(1)</sup>	DCR MAX. (Ω)	RATED DC CURREN (mA) <sup>(2)</sup>	NT
				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	ш
	8.2	± 10	- 24	541	55	7.9	53	3.6	111	IRON CORE
MS21426	10.0	± 10	- 25	542	57	7.9	50	4.0	106	0 Z
	12.0	± 10	- 26	543	36	2.5	35	3.0	122	BOI
	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

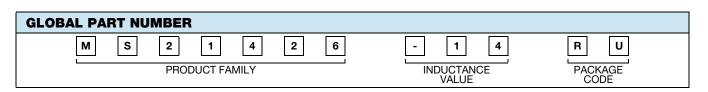
<sup>(1)</sup> Measured with full length lead

(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	К	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





Vishay

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