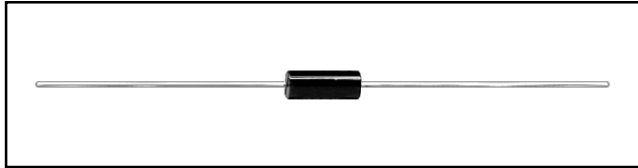




Inductors

*Military/Established Reliability, MIL-C-39010 Qualified
M39010/01/02, Magnetic Shield*



FEATURES

- MIL-C-39010/01 (phenolic core - iron sleeve).
- MIL-C-39010/02 (iron core - iron sleeve).

ELECTRICAL SPECIFICATIONS

Inductance Tolerance: ± 5%, ± 10%.
Dielectric Strength: 1000V RMS at sea level.
Operating Temperature: - 55°C to + 105°C.
Self-Resonant Frequency: Measured per MIL-C-39010.
Q: Measured on a Q-Meter.

Maximum Current: Based on temperature rise not to exceed 15°C at + 90°C ambient.

MECHANICAL SPECIFICATIONS

Terminal Strength: Meets 5 pound pull test; three 360° rotations in alternate directions.

DENSITY SPECIFICATIONS

Weight: 1 gram maximum.

Shielding: At the coupling test frequency two units assembled side by side exhibit less than 3% coupling.

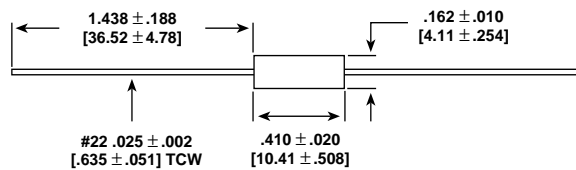
ENVIRONMENTAL SPECIFICATIONS

Moisture: Meets requirements of MIL-C-39010.

Vibration: High frequency, 10Hz to 2000Hz @ 20 G ± 10% maximum for 12 logarithmic swings each of 20 minute duration repeated for each of three mutually perpendicular planes.

Shock: 100 G, 6 MS.

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]



STANDARD ELECTRICAL SPECIFICATIONS

MODEL	MIL-C-39010 TYPE	DASH † NUMBER	IND. (μH)	TOL.	Q MIN.	TEST FREQ. (MHz)	SELF-RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)	INCREMENTAL CURRENT (mA)
IMS-5A-ER	M39010/01	AR10**	.10	± 5%, ± 10%	50	25	250	.025	1790	—
IMS-5A-ER	M39010/01	AR11**	.11	± 5%	50	25	250	.034	1530	—
IMS-5A-ER	M39010/01	AR12**	.12	± 5%, ± 10%	50	25	250	.034	1530	—
IMS-5A-ER	M39010/01	AR13**	.13	± 5%	50	25	250	.037	1470	—
IMS-5A-ER	M39010/01	AR15**	.15	± 5%, ± 10%	50	25	250	.037	1470	—
IMS-5A-ER	M39010/01	AR16**	.16	± 5%	50	25	250	.047	1300	—
IMS-5A-ER	M39010/01	AR18**	.18	± 5%, ± 10%	50	25	250	.047	1300	—
IMS-5A-ER	M39010/01	AR20**	.20	± 5%	49	25	250	.067	1100	—
IMS-5A-ER	M39010/01	AR22**	.22	± 5%, ± 10%	49	25	250	.067	1100	—
IMS-5A-ER	M39010/01	AR24**	.24	± 5%	47	25	250	.11	853	—
IMS-5A-ER	M39010/01	AR27**	.27	± 5%, ± 10%	47	25	250	.11	853	—
IMS-5A-ER	M39010/01	AR30**	.30	± 5%	46	25	250	.13	780	—

† The complete Dash Number will include two additional letters (indicated by **). The first additional letter (J = 5%, K = 10%, L = 20%) will indicate the inductance tolerance and the second additional letter will indicate the failure rate symbol (e.g., M, P, R, S) and will be added to the

NOTE: Listing of Military Standard does not imply qualification. Contact factory for latest government QPL information.

Models IMS-5A-ER and IMS-5B-ER



Vishay Dale

STANDARDELECTRICAL SPECIFICATIONS										
MODEL	MIL-C-39010 TYPE	DASH † NUMBER	IND. (μH)	TOLERANCE	Q MIN.	TEST FREQ. (MHz)	SELF-RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)	INCREMENTAL CURRENT (mA)
MS-5A-ER	M39010/01	AR33**	.33	± 5%, ± 10%	46	25	250	.13	780	—
IMS-5A-ER	M39010/01	AR36**	.36	± 5%	44	25	250	.18	670	—
IMS-5A-ER	M39010/01	AR39**	.39	± 5%, ± 10%	44	25	250	.18	670	—
IMS-5A-ER	M39010/01	AR43**	.43	± 5%	44	25	235	.25	565	—
IMS-5A-ER	M39010/01	AR47**	.47	± 5%, ± 10%	44	25	235	.25	565	—
IMS-5A-ER	M39010/01	AR51**	.51	± 5%	43	25	210	.33	490	—
IMS-5A-ER	M39010/01	AR56**	.56	± 5%, ± 10%	43	25	210	.33	490	—
IMS-5A-ER	M39010/01	AR62**	.62	± 5%	42	25	190	.45	420	—
IMS-5A-ER	M39010/01	AR68**	.68	± 5%, ± 10%	42	25	190	.45	420	—
IMS-5A-ER	M39010/01	AR75**	.75	± 5%	40	25	180	.59	370	—
IMS-5A-ER	M39010/01	AR82**	.82	± 5%, ± 10%	40	25	180	.59	370	—
IMS-5B-ER	M39010/02	AR91**	.91	± 5%	44	25	140	.07	1070	—
IMS-5B-ER	M39010/02	A1R0**	1.00	± 5%, ± 10%	44	25	140	.07	1070	—
IMS-5B-ER	M39010/02	A1R1**	1.10	± 5%	44	7.9	130	.10	895	—
IMS-5B-ER	M39010/02	A1R2**	1.20	± 5%, ± 10%	44	7.9	130	.10	895	—
IMS-5B-ER	M39010/02	A1R3**	1.30	± 5%	44	7.9	115	.12	815	—
IMS-5B-ER	M39010/02	A1R5**	1.50	± 5%, ± 10%	44	7.9	115	.12	815	—
IMS-5B-ER	M39010/02	A1R6**	1.60	± 5%	44	7.9	105	.14	755	—
IMS-5B-ER	M39010/02	A1R8**	1.80	± 5%, ± 10%	44	7.9	105	.14	755	—
IMS-5B-ER	M39010/02	A2R0**	2.00	± 5%	44	7.9	100	.19	650	—
IMS-5B-ER	M39010/02	A2R2**	2.20	± 5%, ± 10%	44	7.9	100	.19	650	—
IMS-5B-ER	M39010/02	A2R4**	2.40	± 5%	44	7.9	92	.28	535	—
IMS-5B-ER	M39010/02	A2R7**	2.70	± 5%, ± 10%	44	7.9	92	.28	535	—
IMS-5B-ER	M39010/02	A3R0**	3.00	± 5%	44	7.9	85	.35	480	—
IMS-5B-ER	M39010/02	A3R3**	3.30	± 5%, ± 10%	44	7.9	85	.35	480	—
IMS-5B-ER	M39010/02	A3R6**	3.60	± 5%	44	7.9	75	.40	450	—
IMS-5B-ER	M39010/02	A3R9**	3.90	± 5%, ± 10%	44	7.9	75	.40	450	—
IMS-5B-ER	M39010/02	A4R3**	4.30	± 5%	44	7.9	70	.55	380	—
IMS-5B-ER	M39010/02	A4R7**	4.70	± 5%, ± 10%	44	7.9	70	.55	380	—
IMS-5B-ER	M39010/02	A5R1**	5.10	± 5%	44	7.9	65	.72	335	—
IMS-5B-ER	M39010/02	A5R6**	5.60	± 5%, ± 10%	44	7.9	65	.72	335	—
IMS-5B-ER	M39010/02	A6R2**	6.20	± 5%	44	7.9	55	1.02	280	—
IMS-5B-ER	M39010/02	A6R8**	6.80	± 5%, ± 10%	50	7.9	55	1.02	280	—
IMS-5B-ER	M39010/02	A7R5**	7.50	± 5%	50	7.9	50	1.32	245	—
IMS-5B-ER	M39010/02	A8R2**	8.20	± 5%, ± 10%	50	7.9	50	1.32	245	—
IMS-5B-ER	M39010/02	A9R1**	9.10	± 5%	50	7.9	46	1.62	220	—
IMS-5B-ER	M39010/02	A100**	10	± 5%, ± 10%	50	7.9	46	1.62	220	—
IMS-5B-ER	M39010/02	A110**	11	± 5%	50	2.5	44	2.00	200	—
IMS-5B-ER	M39010/02	A120**	12	± 5%, ± 10%	55	2.5	44	2.00	200	—

† The complete Dash Number will include two additional letters (indicated by **). The first additional letter will indicate the inductance tolerance and the second additional letter will indicate the failure rate symbol (e.g., M, P, R, S) and will be added to the end of the Dash Number.

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PART MARKING
— Military part number
— Manufacturer's source code
— "JAN" marking, date code and lot symbol

HOW TO ORDER - MILITARY PART NUMBER					
M39010	01	A	R10	K	R
MIL. SPEC. NO. INDICATING MIL-C-39010	MIL. SPEC. SHEET NO.	TEMPERATURE CLASS	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	FAILURE RATE LEVEL