Vishay Dale



Inductors, Commercial, Molded, Axial Leaded



ELECTRICAL SPECIFICATIONS

Inductance Tolerance: \pm 10 % on Q-meter for 0.10 μH to 22 $\mu H,\,\pm$ 5 % 1000 cps bridge for 27 μH to 100 $\mu H,\,\pm$ 5 % on Q-meter for 120 μH to 1000 μH

Note

 L and Q are not always tested at the same frequency, inductance values that are tested on Q-meter, are tested at standard test frequencies

Dielectric Strength: 700 V_{RMS} at sea level **Operating Temperature:** - 55 °C to + 125 °C

Self-Resonant Frequency: Minimum SRF measured with

full length leads on grid-dip meter

Q: Measured on Q-meter

DENSITY SPECIFICATIONS

Weight: 0.9 g maximum

FEATURES

- Classification is grade 1, class B
- Inductance range is 0.10 μH to 1000 μH
- Proven reliability molded inductors
- Compliant to RoHS directive 2002/95/EC



ROHS

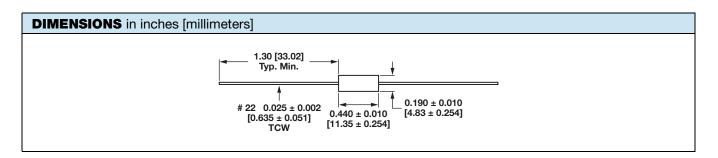
MECHANICAL SPECIFICATIONS

Terminal Strength: Meets 5 lb pull per MIL-PRF-15305 (latest revision)

ENVIRONMENTAL SPECIFICATIONS

Moisture and Shock Resistance: Meets requirements of MIL-PRF-15305, grade 1, class B

Vibration: High frequency, 10 Hz to 2000 Hz at 20 g \pm 10 % maximum for 12 logarythmic swings, each of 20 min duration repeated for each of three mutually perpendicular planes



STANDARD ELECTRICAL SPECIFICATIONS											
MODEL (1)	IND. (µH)	TOL. (%)	Q MIN.	TEST FREQUENCY (MHz)	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)				
IM-6RFCS-40	0.10	± 10	75	50	400	0.02	4000				
IM-6RFCS-40	0.12	± 10	75	50	400	0.025	3500				
IM-6RFCS-40	0.15	± 10	75	50	400	0.03	3000				
IM-6RFCS-40	0.18	± 10	75	50	400	0.03	3000				
IM-6RFCS-40	0.22	± 10	75	50	400	0.03	3000				
IM-6RFCS-40	0.27	± 10	70	45	376	0.04	2700	ш			
IM-6RFCS-40	0.33	± 10	70	40	352	0.05	2500	CORE			
IM-6RFCS-40	0.39	± 10	65	40	320	0.08	2000				
IM-6RFCS-40	0.47	± 10	60	25	288	0.08	2000	PHENOLIC			
IM-6RFCS-40	0.56	± 10	55	25	264	0.10	1700	2			
IM-6RFCS-40	0.68	± 10	55	25	240	0.12	1500	뽀			
IM-6RFCS-40	0.82	± 10	50	25	220	0.18	1300	۵			
IM-6RFCS-40	1.0	± 10	50	20	200	0.24	1100				
IM-6RFCS-40	1.2	± 10	45	20	176	0.35	1000				
IM-6RFCS-40	1.5	± 10	45	15	160	0.43	850				
IM-6RFCS-40	1.8	± 10	45	15	144	0.65	720				
IM-6RFCS-40	2.2	± 10	45	15	132	0.80	610				

Note

(1) Model electricals and tolerances shown

Document Number: 34034 Revision: 15-Jul-09



Inductors, Commercial, Molded, Axial Leaded

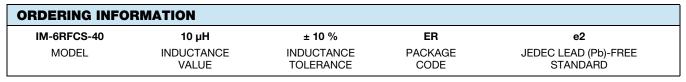
Vishay Dale

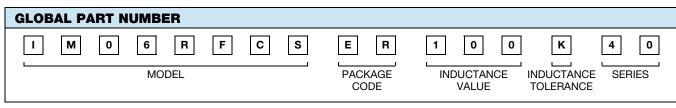
MODEL (1)	IND. (µH)	TOL. (%)	Q MIN.	TEST FREQUENCY (MHz)	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)		
IM-6RFCS-40	2.7	± 10	55	10	88	0.12	1600	T	
IM-6RFCS-40	3.3	± 10	55	10	80	0.15	1400		
IM-6RFCS-40	3.9	± 10	60	10	76	0.23	1200		
IM-6RFCS-40	4.7	± 10	70	7.9	72	0.30	1000		
IM-6RFCS-40	5.6	± 10	65	7.9	64	0.45	900		
IM-6RFCS-40	6.8	± 10	65	7.9	56	0.55	800		
IM-6RFCS-40	8.2	± 10	60	7.9	52	0.65	720		
IM-6RFCS-40	10	± 10	60	5.0	48	0.73	650		
IM-6RFCS-40	12	± 10	65	5.0	42	1.1	590		
IM-6RFCS-40	15	± 10	80	2.5	38	1.4	500		
IM-6RFCS-40	18	± 10	75	2.5	34	1.6	460		
IM-6RFCS-40	22	± 10	75	2.5	32	1.8	430		
IM-6RFCS-40	27	± 5	75	2.5	29	2.7	360		
IM-6RFCS-40	33	± 5	85	2.5	26	3.5	300		
IM-6RFCS-40	39	± 5	80	2.5	21	3.8	290		
IM-6RFCS-40	47	± 5	80	2.5	18	4.0	275		
IM-6RFCS-40	56	± 5	75	2.5	15	4.4	265		
IM-6RFCS-40	68	± 5	75	2.5	13	4.7	250	Щ	
IM-6RFCS-40	82	± 5	75	2.5	10	5.3	235	9	
IM-6RFCS-40	100	± 5	75	1.5	8.0	6.0	220	RON CORE	
IM-6RFCS-40	120	± 5	65	0.79	5.7	5.0	170	N	
IM-6RFCS-40	150	± 5	65	0.79	5.4	5.8	164	E E	
IM-6RFCS-40	180	± 5	65	0.79	5.0	6.6	158		
IM-6RFCS-40	220	± 5	65	0.79	4.7	7.4	155		
IM-6RFCS-40	270	± 5	65	0.79	4.5	8.0	150		
IM-6RFCS-40	300	± 5	65	0.79	4.2	8.6	145		
IM-6RFCS-40	330	± 5	65	0.79	4.0	8.9	142		
IM-6RFCS-40	360	± 5	65	0.79	3.8	9.6	137		
IM-6RFCS-40	390	± 5	65	0.79	3.6	9.9	135		
IM-6RFCS-40	430	± 5	65	0.79	3.4	10.4	131		
IM-6RFCS-40	470	± 5	65	0.79	3.2	10.9	128		
IM-6RFCS-40	510	± 5	65	0.79	3.0	11.6	124		
IM-6RFCS-40	560	± 5	65	0.79	2.9	11.8	123		
IM-6RFCS-40	620	± 5	60	0.79	2.8	12.5	120		
IM-6RFCS-40	680	± 5	60	0.79	2.7	13.5	115		
IM-6RFCS-40	750	± 5	60	0.79	2.6	14.0	113		
IM-6RFCS-40	820	± 5	60	0.79	2.5	15.0	110		
IM-6RFCS-40	910	± 5	60	0.79	2.4	15.5	107		
IM-6RFCS-40	1000	± 5	60	0.79	2.2	16.5	104		

Note

⁽¹⁾ Model electricals and tolerances shown









Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

Revision: 13-Jun-16 1 Document Number: 91000