



Inductors, Commercial, Molded, Axial Leaded



ELECTRICAL SPECIFICATIONS

Inductance Tolerance: $\pm 10\%$ on Q-Meter for 1 μH to 22 μH . $\pm 5\%$ 1000 cps bridge for 27 μH to 2200 μH

Note

- L and Q are not always tested at the same frequency. Inductance values tested on Q-Meter, are tested at standard test frequencies.

Dielectric Strength: 700 V_{RMS} at sea level

Operating Temperature: - 55 $^{\circ}\text{C}$ to + 125 $^{\circ}\text{C}$

Self-Resonant Frequency: Minimum SRF measured with full length leads on Grid-Dip Meter

Q: Measured on Q-Meter

Rating: 1/3 watt dissipation for M Models

MECHANICAL SPECIFICATIONS

Terminal Strength: Meets 5 pound pull test when tested per MIL-PRF-15305

FEATURES

- Inductance range is 1 μH to 2200 μH
- Proven reliability molded inductors
- Material categorization:
For definitions of compliance please see www.vishay.com/doc?99912

RoHS
COMPLIANT

DENSITY SPECIFICATIONS

Weight: 2 g maximum

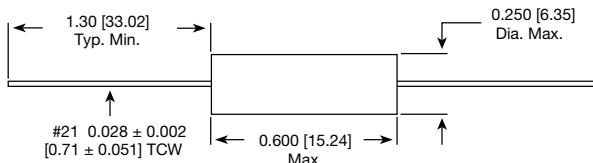
ENVIRONMENTAL SPECIFICATIONS

Moisture: Meets requirements of MIL-PRF-15305

Shock Resistance: Meets requirements of MIL-PRF-15305

Vibration: High frequency, 10 Hz to 2000 Hz at 20 $g \pm 10\%$ maximum for 12 logarithmic swings, each of 20 minduration repeated for each of three mutually perpendicular planes.

DIMENSIONS in inches [millimeters]



STANDARD ELECTRICAL SPECIFICATIONS

MODEL ⁽¹⁾	IND. (μH)	TOL. (%)	Q MIN.	TEST FREQ. (MHz)	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT ⁽¹⁾ (mA)	IRON CORE
IM-10RFCM-13	1.0	± 10	100	15	136	0.04	2700	
IM-10RFCM-13	1.2	± 10	100	15	124	0.04	2700	
IM-10RFCM-13	1.5	± 10	100	10	112	0.04	2700	
IM-10RFCM-13	1.8	± 10	95	10	100	0.05	2500	
IM-10RFCM-13	2.2	± 10	95	10	88	0.05	2500	
IM-10RFCM-13	2.7	± 10	68	7.9	76	0.05	2500	
IM-10RFCM-13	3.3	± 10	60	7.9	72	0.05	2500	
IM-10RFCM-13	3.9	± 10	60	7.9	70	0.07	2100	
IM-10RFCM-13	4.7	± 10	60	7.9	60	0.09	1800	
IM-10RFCM-13	5.6	± 10	65	7.9	56	0.14	1550	
IM-10RFCM-13	6.8	± 10	70	7.9	52	0.17	1300	
IM-10RFCM-13	8.2	± 10	65	7.9	46	0.25	1150	
IM-10RFCM-13	10	± 10	65	5	40	0.32	1000	
IM-10RFCM-13	12	± 10	65	5	36	0.47	870	

Note

⁽¹⁾ Model electricals and tolerances shown.



STANDARD ELECTRICAL SPECIFICATIONS

MODEL ⁽¹⁾	IND. (μ H)	TOL. (%)	Q MIN.	TEST FREQ. (MHz)	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT ⁽¹⁾ (mA)	IRON CORE
IM-10RFCM-13	15	± 10	75	4	32	0.62	730	
IM-10RFCM-13	18	± 10	65	4	30	0.72	660	
IM-10RFCM-13	22	± 10	65	2.5	28	0.80	600	
IM-10RFCM-13	27	± 5	65	2.5	25	1.2	520	
IM-10RFCM-13	33	± 5	80	2.5	22	1.5	450	
IM-10RFCM-13	39	± 5	80	2.5	20	2.3	380	
IM-10RFCM-13	47	± 5	100	2.5	19	3.0	300	
IM-10RFCM-13	56	± 5	100	2.5	18	4.2	270	
IM-10RFCM-13	68	± 5	100	2.5	16	5.2	250	
IM-10RFCM-13	82	± 5	100	2.5	14	6.2	220	
IM-10RFCM-13	100	± 5	100	1.5	13	7.0	200	
IM-10RFCM-13	120	± 5	95	1.5	11	7.5	200	
IM-10RFCM-13	150	± 5	90	1	9	8	190	
IM-10RFCM-13	180	± 5	85	1	7	9	185	
IM-10RFCM-13	220	± 5	85	1	5.5	10	180	
IM-10RFCM-13	270	± 5	80	1	4.5	11	172	
IM-10RFCM-13	330	± 5	80	0.80	3.5	12	165	
IM-10RFCM-13	390	± 5	75	0.80	3.0	13	157	
IM-10RFCM-13	470	± 5	75	0.80	2.8	14	150	
IM-10RFCM-13	560	± 5	65	0.80	2.5	16	145	
IM-10RFCM-13	680	± 5	65	0.80	2.2	17	140	
IM-10RFCM-13	820	± 5	65	0.80	2.0	19	132	
IM-10RFCM-13	1000	± 5	70	0.80	1.8	21	125	
IM-10RFCM-13	1200	± 5	60	0.25	2.2	22	120	
IM-10RFCM-13	220	± 5	70	0.25	1.6	30	100	

Note

⁽¹⁾ Model electricals and tolerances shown.

MARKING

- Color coded

ORDERING INFORMATION

IM-10RFCM-13	1.0 μ H	10 %	EZ	e2
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	M	1	0	R	F	C	M	E	Z	1	R	0	K	1	3
MODEL								PACKAGE CODE		INDUCTANCE VALUE			INDUCTANCE TOLERANCE	SERIES	



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