



## Inductors, Commercial, Molded, Axial Leaded



## ELECTRICAL SPECIFICATIONS

**Inductance Tolerance:**  $\pm 10\%$  on Q-Meter for 1  $\mu\text{H}$  to 22  $\mu\text{H}$ .  $\pm 5\%$  1000 cps bridge for 27  $\mu\text{H}$  to 2200  $\mu\text{H}$

## 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  $V_{\text{RMS}}$  at sea level

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

**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  $\mu\text{H}$  to 2200  $\mu\text{H}$
- Proven reliability molded inductors
- Material categorization:  
For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

RoHS  
COMPLIANT

## DENSITY SPECIFICATIONS

**Weight:** 2 g maximum

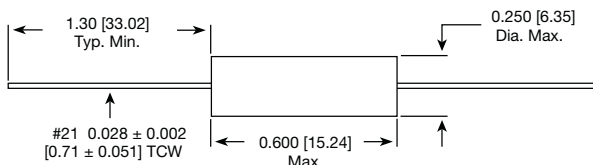
## ENVIRONMENTAL SPECIFICATIONS

**Moisture:** Meets requirements of MIL-PRF-15305

**Shock Resistance:** Meets requirements of MIL-PRF-15305

**Vibration:** High frequency, 10 Hz to 2000 Hz at  $20\text{ g} \pm 10\%$  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 <sup>(1)</sup>	IND. ( $\mu\text{H}$ )	TOL. (%)	Q MIN.	TEST FREQ. (MHz)	SRF MIN. (MHz)	DCR MAX. ( $\Omega$ )	RATED DC CURRENT <sup>(1)</sup> (mA)	IRON CORE
IM-10RFCM-13	1.0	$\pm 10$	100	15	136	0.04	2700	
IM-10RFCM-13	1.2	$\pm 10$	100	15	124	0.04	2700	
IM-10RFCM-13	1.5	$\pm 10$	100	10	112	0.04	2700	
IM-10RFCM-13	1.8	$\pm 10$	95	10	100	0.05	2500	
IM-10RFCM-13	2.2	$\pm 10$	95	10	88	0.05	2500	
IM-10RFCM-13	2.7	$\pm 10$	68	7.9	76	0.05	2500	
IM-10RFCM-13	3.3	$\pm 10$	60	7.9	72	0.05	2500	
IM-10RFCM-13	3.9	$\pm 10$	60	7.9	70	0.07	2100	
IM-10RFCM-13	4.7	$\pm 10$	60	7.9	60	0.09	1800	
IM-10RFCM-13	5.6	$\pm 10$	65	7.9	56	0.14	1550	
IM-10RFCM-13	6.8	$\pm 10$	70	7.9	52	0.17	1300	
IM-10RFCM-13	8.2	$\pm 10$	65	7.9	46	0.25	1150	
IM-10RFCM-13	10	$\pm 10$	65	5	40	0.32	1000	
IM-10RFCM-13	12	$\pm 10$	65	5	36	0.47	870	

## Note

<sup>(1)</sup> Model electricals and tolerances shown.



## STANDARD ELECTRICAL SPECIFICATIONS

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

## Note

<sup>(1)</sup> Model electricals and tolerances shown.

## MARKING

- Color coded

## ORDERING INFORMATION

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