



Inductors

Commercial, Molded



FEATURES

- Inductance range is 1 μ H to 2200 μ H.
- Proven reliability molded inductors.

STANDARD ELECTRICAL SPECIFICATIONS

MODEL*	IND. (μ H)	TOL.	Q MIN.	TEST FREQ. (MHz)	SRF MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
IM-10RFCM-13	1.0	$\pm 10\%$	100	15	136	.04	2700
IM-10RFCM-13	1.2	$\pm 10\%$	100	15	124	.04	2700
IM-10RFCM-13	1.5	$\pm 10\%$	100	10	112	.04	2700
IM-10RFCM-13	1.8	$\pm 10\%$	95	10	100	.05	2500
IM-10RFCM-13	2.2	$\pm 10\%$	95	10	88	.05	2500
IM-10RFCM-13	2.7	$\pm 10\%$	68	7.9	76	.05	2500
IM-10RFCM-13	3.3	$\pm 10\%$	60	7.9	72	.05	2500
IM-10RFCM-13	3.9	$\pm 10\%$	60	7.9	70	.07	2100
IM-10RFCM-13	4.7	$\pm 10\%$	60	7.9	60	.09	1800
IM-10RFCM-13	5.6	$\pm 10\%$	65	7.9	56	.14	1550
IM-10RFCM-13	6.8	$\pm 10\%$	70	7.9	52	.17	1300
IM-10RFCM-13	8.2	$\pm 10\%$	65	7.9	46	.25	1150
IM-10RFCM-13	10	$\pm 10\%$	65	5	40	.32	1000
IM-10RFCM-13	12	$\pm 10\%$	65	5	36	.47	870
IM-10RFCM-13	15	$\pm 10\%$	75	4	32	.62	730
IM-10RFCM-13	18	$\pm 10\%$	65	4	30	.72	660
IM-10RFCM-13	22	$\pm 10\%$	65	2.5	28	.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	.80	3.5	12	165
IM-10RFCM-13	390	$\pm 5\%$	75	.80	3.0	13	157
IM-10RFCM-13	470	$\pm 5\%$	75	.80	2.8	14	150
IM-10RFCM-13	560	$\pm 5\%$	65	.80	2.5	16	145
IM-10RFCM-13	680	$\pm 5\%$	65	.80	2.2	17	140
IM-10RFCM-13	820	$\pm 5\%$	65	.80	2.0	19	132
IM-10RFCM-13	1000	$\pm 5\%$	70	.50	1.8	21	125
IM-10RFCM-13	1200	$\pm 5\%$	60	.25	2.2	22	120
IM-10RFCM-13	2200	$\pm 5\%$	70	.25	1.6	30	100

IRON CORE

ELECTRICAL SPECIFICATIONS

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

Rating: 1/3 watt dissipation for M Models.

MECHANICAL SPECIFICATIONS

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

DENSITY SPECIFICATIONS

Weight: 2 grams maximum.

ENVIRONMENTAL SPECIFICATIONS

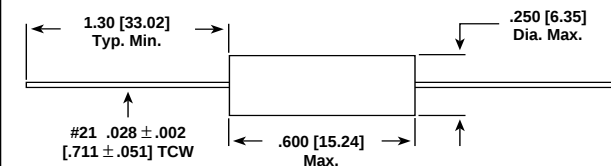
Moisture: Meets requirements of MIL-C-15305.

Shock Resistance: Meets requirements of MIL-C-15305.

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

DIMENSIONAL CONFIGURATIONS

[Numbers in brackets indicate millimeters]



PART MARKING

— Color coded

HOW TO ORDER

IM-10RFCM-13
MODEL

1.0 μ H
INDUCTANCE
VALUE

$\pm 10\%$
INDUCTANCE
TOLERANCE

*Model electricals and tolerances shown.