

## Inductors

### Commercial, Molded


**FEATURES**

- Inductance range is 1  $\mu$ H to 2200  $\mu$ H
- Proven reliability molded inductors


**RoHS**  
COMPLIANT

**STANDARD ELECTRICAL SPECIFICATIONS**

MODEL*	IND. ( $\mu$ 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	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
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	0.50	1.8	21	125
IM-10RFCM-13	1200	$\pm 5\%$	60	0.25	2.2	22	120
IM-10RFCM-13	2200	$\pm 5\%$	70	0.25	1.6	30	100

IRON CORE

\*Model electricals and tolerances shown.

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

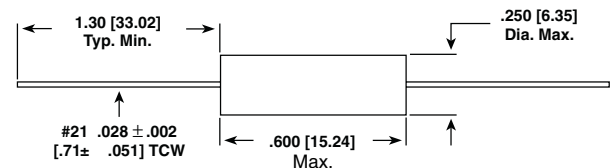
**MECHANICAL SPECIFICATIONS**
**Terminal Strength:** Meets 5 pound pull test when tested per MIL-PRF-15305

**DENSITY SPECIFICATIONS**
**Weight:** 2 grams 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 minute duration repeated for each of three mutually perpendicular planes.

**DIMENSIONS** in inches [millimeters]

**MARKING**

— Color coded

**ORDERING INFORMATION**

IM-10RFCM-13	1.0 $\mu$ 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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