



Inductors

Commercial, Molded



STANDARD ELECTRICAL SPECIFICATIONS

MODEL*	IND. (μ H)	TOL.	Q MIN.	TEST FREQ. (MHz)	SRF MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
IM-6RFCS-40	.10	$\pm 10\%$	75	50	400	.02	4000
IM-6RFCS-40	.12	$\pm 10\%$	75	50	400	.025	3500
IM-6RFCS-40	.15	$\pm 10\%$	75	50	400	.03	3000
IM-6RFCS-40	.18	$\pm 10\%$	75	50	400	.03	3000
IM-6RFCS-40	.22	$\pm 10\%$	75	50	400	.03	3000
IM-6RFCS-40	.27	$\pm 10\%$	70	45	376	.04	2700
IM-6RFCS-40	.33	$\pm 10\%$	70	40	352	.05	2500
IM-6RFCS-40	.39	$\pm 10\%$	65	40	320	.08	2000
IM-6RFCS-40	.47	$\pm 10\%$	60	25	288	.08	2000
IM-6RFCS-40	.56	$\pm 10\%$	55	25	264	.10	1700
IM-6RFCS-40	.68	$\pm 10\%$	55	25	240	.12	1500
IM-6RFCS-40	.82	$\pm 10\%$	50	25	220	.18	1300
IM-6RFCS-40	1.0	$\pm 10\%$	50	20	200	.24	1100
IM-6RFCS-40	1.2	$\pm 10\%$	45	20	176	.35	1000
IM-6RFCS-40	1.5	$\pm 10\%$	45	15	160	.43	850
IM-6RFCS-40	1.8	$\pm 10\%$	45	15	144	.65	720
IM-6RFCS-40	2.2	$\pm 10\%$	45	15	132	.80	610
IM-6RFCS-40	2.7	$\pm 10\%$	55	10	88	.12	1600
IM-6RFCS-40	3.3	$\pm 10\%$	55	10	80	.15	1400
IM-6RFCS-40	3.9	$\pm 10\%$	60	10	76	.23	1200
IM-6RFCS-40	4.7	$\pm 10\%$	70	7.9	72	.30	1000
IM-6RFCS-40	5.6	$\pm 10\%$	65	7.9	64	.45	900
IM-6RFCS-40	6.8	$\pm 10\%$	65	7.9	56	.55	800
IM-6RFCS-40	8.2	$\pm 10\%$	60	7.9	52	.65	720
IM-6RFCS-40	10	$\pm 10\%$	60	5	48	.73	650
IM-6RFCS-40	12	$\pm 10\%$	65	5	42	1.1	590
IM-6RFCS-40	15	$\pm 10\%$	80	2.5	38	1.4	500
IM-6RFCS-40	18	$\pm 10\%$	75	2.5	34	1.6	460
IM-6RFCS-40	22	$\pm 10\%$	75	2.5	32	1.8	430
IM-6RFCS-40	27	$\pm 5\%$	75	2.5	29	2.7	360
IM-6RFCS-40	33	$\pm 5\%$	85	2.5	26	3.5	300
IM-6RFCS-40	39	$\pm 5\%$	80	2.5	21	3.8	290
IM-6RFCS-40	47	$\pm 5\%$	80	2.5	18	4.0	275
IM-6RFCS-40	56	$\pm 5\%$	75	2.5	15	4.4	265
IM-6RFCS-40	68	$\pm 5\%$	75	2.5	13	4.7	250
IM-6RFCS-40	82	$\pm 5\%$	75	2.5	10	5.3	235
IM-6RFCS-40	100	$\pm 5\%$	75	1.5	8	6.0	220
IM-6RFCS-40	120	$\pm 5\%$	65	.79	5.7	5.0	170
IM-6RFCS-40	150	$\pm 5\%$	65	.79	5.4	5.8	164
IM-6RFCS-40	180	$\pm 5\%$	65	.79	5.0	6.6	158
IM-6RFCS-40	220	$\pm 5\%$	65	.79	4.7	7.4	155
IM-6RFCS-40	270	$\pm 5\%$	65	.79	4.5	8.0	150
IM-6RFCS-40	300	$\pm 5\%$	65	.79	4.2	8.6	145
IM-6RFCS-40	330	$\pm 5\%$	65	.79	4.0	8.9	142
IM-6RFCS-40	360	$\pm 5\%$	65	.79	3.8	9.6	137
IM-6RFCS-40	390	$\pm 5\%$	65	.79	3.6	9.9	135
IM-6RFCS-40	430	$\pm 5\%$	65	.79	3.4	10.4	131
IM-6RFCS-40	470	$\pm 5\%$	65	.79	3.2	10.9	128
IM-6RFCS-40	510	$\pm 5\%$	65	.79	3.0	11.6	124
IM-6RFCS-40	560	$\pm 5\%$	65	.79	2.9	11.8	123
IM-6RFCS-40	620	$\pm 5\%$	60	.79	2.8	12.5	120
IM-6RFCS-40	680	$\pm 5\%$	60	.79	2.7	13.5	115
IM-6RFCS-40	750	$\pm 5\%$	60	.79	2.6	14.0	113
IM-6RFCS-40	820	$\pm 5\%$	60	.79	2.5	15.0	110
IM-6RFCS-40	910	$\pm 5\%$	60	.79	2.4	15.5	107
IM-6RFCS-40	1000	$\pm 5\%$	60	.79	2.2	16.5	104

PHENOLIC CORE

IRON CORE

FEATURES

- Classification is Grade 1, Class B.
- Inductance range is .10 μ H to 1000 μ H.
- Proven reliability molded inductors.

ELECTRICAL SPECIFICATIONS

Inductance Tolerance: $\pm 10\%$ on Q-Meter for .10 μ H to 22 μ H. $\pm 5\%$ 1000 cps bridge for 27 μ H to 100 μ H.
 $\pm 5\%$ on Q-Meter for 120 μ H to 1000 μ H.

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: 700V 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.

MECHANICAL SPECIFICATIONS

Terminal Strength: Meets 5 pound pull test per MIL-C-15305 (latest revision).

DENSITY SPECIFICATIONS

Weight: .9 gram maximum.

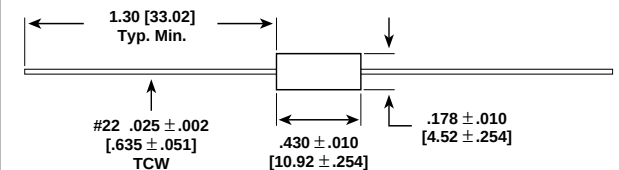
ENVIRONMENTAL SPECIFICATIONS

Moisture and Shock Resistance: Meets requirements of MIL-C-15305, Grade 1, Class B.

Vibration: High frequency, 10Hz to 2000Hz @ 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 per MIL-C-15305 (latest revision)

HOW TO ORDER

IM-6RFCS-40

MODEL

10 μ HINDUCTANCE
VALUE $\pm 10\%$ INDUCTANCE
TOLERANCE

*Model electricals and tolerances shown.