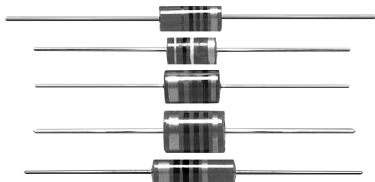


Inductors

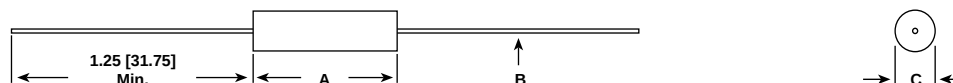
Commercial, Molded



FEATURES

- High Q and SRF.
- Non standard tolerances are also available in all types.
- Maximum protection with minimum size as a result of full encapsulation in a thermo-setting mineral filled plastic jacket.
- Assured uniformity of product, a result of stringent quality control and inspection procedures at every production stage.

DIMENSIONS in inches [millimeters]



MODEL	A	B	C
IM-10-22	0.560 ± 0.010 [14.22 ± 0.254]	#22 AWG 0.025 ± 0.002 [0.635 ± 0.051] (0.47μH thru 39μH) #21 AWG 0.028 ± 0.002 [0.711 ± 0.051] (1100μH thru 3600μH)	0.220 ± 0.010 [5.59 ± 0.254]
IM-10-28	0.940 ± 0.010 [23.88 ± 0.254]	#21 AWG 0.028 ± 0.002 [0.711 ± 0.051]	0.280 ± 0.010 [7.11 ± 0.254]
IM-10-31	0.560 ± 0.010 [14.22 ± 0.254]	#21 AWG 0.028 ± 0.002 [0.711 ± 0.051]	0.310 ± 0.010 [7.87 ± 0.254]
IM-10-37	0.625 ± 0.010 [15.88 ± 0.254]	#21 AWG 0.028 ± 0.002 [0.711 ± 0.051]	0.375 ± 0.010 [9.52 ± 0.254]
IM-10-46	0.687 ± 0.010 [17.45 ± 0.254]	#21 AWG 0.028 ± 0.002 [0.711 ± 0.051]	0.468 ± 0.010 [11.89 ± 0.254]

INDUCTANCE RANGE

MODEL	INDUCTANCE RANGE		CORE MATERIAL	MAXIMUM OPERATING TEMPERATURE
	FROM	TO		
IM-10-22	0.47μH	4.7μH	Phenolic	+ 125°C
	5.6μH	39μH	Iron	+ 105°C
	1100μH	3600μH	Iron	+ 105°C
IM-10-28	1.2μH	18μH	Phenolic	+ 125°C
	22μH	120μH	Iron	+ 105°C
IM-10-31	180μH	390μH	Iron	+ 105°C
IM-10-37	470μH	1000μH	Iron	+ 105°C
IM-10-46	1500μH	10000μH	Iron	+ 105°C

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. (μH)	TOL.	PREVIOUS PART NO.	Q MIN.	TEST FREQ. (MHz)	SELF-RESONANT FREQ. MIN. (MHz)	DCR @ + 25°C MAX. (Ohms)	RATED DC CURRENT (mA)	PHENOLIC CORE
IM-10-22	0.47	± 10%	4412-1K	65	25	300	0.06	1970	
IM-10-22	0.56	± 10%	4412-2K	65	25	270	0.07	1850	
IM-10-22	0.68	± 10%	4412-3K	65	25	240	0.08	1700	
IM-10-22	0.82	± 10%	4412-4K	65	25	220	0.11	1450	
IM-10-22	1.0	± 10%	4412-5K	65	25	200	0.14	1290	
IM-10-22	1.2	± 10%	4412-6K	40	7.9	180	0.19	1120	
IM-10-22	1.5	± 10%	4412-7K	40	7.9	160	0.28	925	
IM-10-22	1.8	± 10%	4412-8K	40	7.9	150	0.37	790	
IM-10-22	2.2	± 10%	4412-9K	40	7.9	135	0.50	680	
IM-10-22	2.7	± 10%	4411-10K	40	7.9	120	0.65	600	
IM-10-22	3.3	± 10%	4412-11K	40	7.9	105	1.00	480	
IM-10-22	3.9	± 10%	4412-12K	40	7.9	100	1.20	440	
IM-10-22	4.7	± 10%	4412-13K	40	7.9	90	1.80	360	

**STANDARD ELECTRICAL SPECIFICATIONS**

MODEL	IND. (μ H)	TOLERANCE	PREVIOUS PART NO.	Q MIN.	TEST FREQUENCY (MHz)	SELF-RESONANT FREQ. MIN. (MHz)	DCR @ + 25°C MAX. (Ohms)	RATED DC CURRENT (mA)	
IM-10-22	5.6	$\pm 10\%$	4422-1K	35	7.9	55	0.13	885	IRON CORE
IM-10-22	6.8	$\pm 10\%$	4422-2K	35	7.9	50	0.20	710	
IM-10-22	8.2	$\pm 10\%$	4422-3K	35	7.9	44	0.22	680	
IM-10-22	10	$\pm 10\%$	4422-4K	35	7.9	42	0.26	625	
IM-10-22	12	$\pm 10\%$	4422-5K	45	2.5	34	0.45	465	
IM-10-22	15	$\pm 10\%$	4422-6K	45	2.5	32	0.52	442	
IM-10-22	18	$\pm 10\%$	4422-7K	50	2.5	28	0.70	380	
IM-10-22	22	$\pm 10\%$	4422-8K	60	2.5	24	1.00	326	
IM-10-22	27	$\pm 10\%$	4422-9K	60	2.5	22	1.30	275	
IM-10-22	33	$\pm 10\%$	4422-10K	60	2.5	20	1.50	258	
IM-10-22	39	$\pm 10\%$	4422-11K	70	2.5	18	2.00	224	
IM-10-22	1100	$\pm 5\%$	1312-20J	60	0.25	2.8	21.0	78	IRON CORE
IM-10-22	1200	$\pm 5\%$	1312-21J	60	0.25	2.7	22.0	76	
IM-10-22	1300	$\pm 5\%$	1312-22J	60	0.25	2.6	23.0	75	
IM-10-22	1500	$\pm 5\%$	1312-23J	65	0.25	2.4	25.0	72	
IM-10-22	1600	$\pm 5\%$	1312-24J	65	0.25	2.3	26.0	70	
IM-10-22	1800	$\pm 5\%$	1312-25J	65	0.25	2.2	28.0	68	
IM-10-22	2000	$\pm 5\%$	1312-26J	65	0.25	2.1	29.0	67	
IM-10-22	2200	$\pm 5\%$	1312-27J	70	0.25	2.0	30.0	66	
IM-10-22	2400	$\pm 5\%$	1312-28J	70	0.25	1.9	31.0	64	
IM-10-22	2700	$\pm 5\%$	1312-29J	70	0.25	1.8	33.0	62	
IM-10-22	3000	$\pm 5\%$	1312-30J	70	0.25	1.7	35.0	61	PHENOLIC CORE
IM-10-22	3300	$\pm 5\%$	1312-31J	70	0.25	1.6	38.0	58	
IM-10-22	3600	$\pm 5\%$	1312-32J	70	0.25	1.5	40.0	57	
IM-10-28	1.2	$\pm 10\%$	4414-1K	60	7.9	170	0.075	2400	
IM-10-28	1.5	$\pm 10\%$	4414-2K	60	7.9	160	0.090	2150	
IM-10-28	1.8	$\pm 10\%$	4414-3K	60	7.9	140	0.135	1750	
IM-10-28	2.2	$\pm 10\%$	4414-4K	60	7.9	125	0.160	1600	
IM-10-28	2.7	$\pm 10\%$	4414-5K	60	7.9	115	0.220	1350	
IM-10-28	3.3	$\pm 10\%$	4414-6K	60	7.9	100	0.305	1150	
IM-10-28	3.9	$\pm 10\%$	4414-7K	60	7.9	95	0.450	955	
IM-10-28	4.7	$\pm 10\%$	4414-8K	60	7.9	90	0.560	860	IRON CORE
IM-10-28	5.6	$\pm 10\%$	4414-9K	60	7.9	80	0.745	745	
IM-10-28	6.8	$\pm 10\%$	4414-10K	60	7.9	75	1.05	635	
IM-10-28	8.2	$\pm 10\%$	4414-11K	60	7.9	68	1.40	550	
IM-10-28	10	$\pm 10\%$	4414-12K	60	7.9	60	1.90	460	
IM-10-28	12	$\pm 10\%$	4414-13K	40	2.5	53	2.65	395	
IM-10-28	15	$\pm 10\%$	4414-14K	40	2.5	50	3.25	355	
IM-10-28	18	$\pm 10\%$	4414-15K	40	2.5	45	4.15	315	
IM-10-28	22	$\pm 10\%$	4424-1K	50	2.5	24	0.295	725	
IM-10-28	27	$\pm 10\%$	4424-2K	45	2.5	22	0.350	660	IRON CORE
IM-10-28	33	$\pm 10\%$	4424-3K	60	2.5	19	0.550	525	
IM-10-28	39	$\pm 10\%$	4424-4K	55	2.5	18	0.650	485	
IM-10-28	47	$\pm 10\%$	4424-5K	65	2.5	16	1.00	390	
IM-10-28	56	$\pm 10\%$	4424-6K	65	2.5	14	1.15	360	
IM-10-28	68	$\pm 10\%$	4424-7K	75	2.5	13	1.85	285	
IM-10-28	82	$\pm 10\%$	4424-8K	75	2.5	12	2.10	265	
IM-10-28	100	$\pm 10\%$	4424-9K	75	2.5	12	2.50	245	
IM-10-28	120	$\pm 10\%$	4424-10K	95	0.79	10	4.10	195	
IM-10-31	180	$\pm 10\%$	31A181K	80	0.79	6.0	5.5	148	IRON CORE
IM-10-31	220	$\pm 10\%$	31A221K	80	0.79	5.5	5.9	145	
IM-10-31	270	$\pm 10\%$	31A271K	80	0.79	5.1	6.6	138	
IM-10-31	330	$\pm 10\%$	31A331K	75	0.79	4.2	7.8	122	
IM-10-31	390	$\pm 10\%$	31A391K	75	0.79	3.9	8.7	118	
IM-10-37	470	$\pm 10\%$	37A471K	80	0.79	3.7	9.0	125	IRON CORE
IM-10-37	560	$\pm 10\%$	37A561K	80	0.79	3.5	10.0	118	
IM-10-37	680	$\pm 10\%$	37A681K	75	0.79	3.2	11.2	112	
IM-10-37	820	$\pm 10\%$	37A821K	75	0.79	3.0	13.0	105	
IM-10-37	1000	$\pm 10\%$	37A102K	70	0.79	2.7	14.5	95	
IM-10-46	1500	$\pm 10\%$	46A152K	85	0.25	2.2	22.0	84	IRON CORE
IM-10-46	2200	$\pm 10\%$	46A222K	85	0.25	1.8	27.0	76	
IM-10-46	2700	$\pm 10\%$	46A272K	85	0.25	1.6	32.0	69	
IM-10-46	5100	$\pm 10\%$	46A512K	70	0.25	1.0	66.0	48	
IM-10-46	10000	$\pm 10\%$	46A103K	70	0.25	0.8	70.0	47	

MARKING

— Color coded, see packaging

ORDERING INFORMATION

IM-10-28	22 μ H	$\pm 10\%$
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE