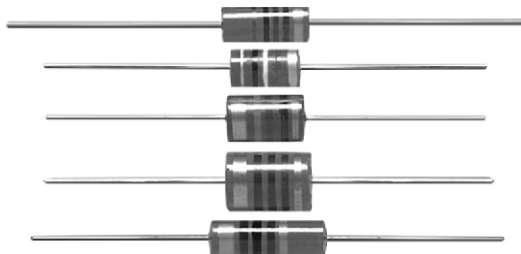


Inductors, Commercial, Molded, Axial Leaded



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
- Compliant to RoHS directive 2002/95/EC

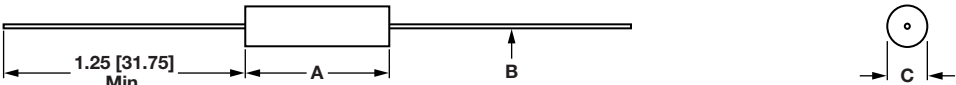


RoHS
COMPLIANT

INDUCTANCE RANGE

MODEL	INDUCTANCE RANGE (μ H)		CORE MATERIAL	MAXIMUM OPERATING TEMPERATURE ($^{\circ}$ C)
	MIN.	MAX.		
IM-10-22	0.47	4.7	Phenolic	+ 125
	5.6	39	Iron	+ 105
	1100	3600	Iron	+ 105
IM-10-28	1.2	18	Phenolic	+ 125
	22	120	Iron	+ 105
IM-10-31	180	390	Iron	+ 105
IM-10-37	470	1000	Iron	+ 105
IM-10-46	1500	10 000	Iron	+ 105

DIMENSIONS in inches [millimeters]

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

STANDARD ELECTRICAL SPECIFICATIONS

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

STANDARD ELECTRICAL SPECIFICATIONS									
MODEL	IND. (μH)	TOL. (%)	PREVIOUS PART NO.	Q MIN.	TEST FREQUENCY Q (MHz)	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)	
IM-10-22	5.6	± 10	4422-1K	35	7.9	55	0.13	885	IRON CORE
IM-10-22	6.8	± 10	4422-2K	35	7.9	50	0.20	710	
IM-10-22	8.2	± 10	4422-3K	35	7.9	44	0.22	680	
IM-10-22	10	± 10	4422-4K	35	7.9	42	0.26	625	
IM-10-22	12	± 10	4422-5K	45	2.5	34	0.45	465	
IM-10-22	15	± 10	4422-6K	45	2.5	32	0.52	442	
IM-10-22	18	± 10	4422-7K	50	2.5	28	0.70	380	
IM-10-22	22	± 10	4422-8K	60	2.5	24	1.00	326	
IM-10-22	27	± 10	4422-9K	60	2.5	22	1.30	275	
IM-10-22	33	± 10	4422-10K	60	2.5	20	1.50	258	
IM-10-22	39	± 10	4422-11K	70	2.5	18	2.00	224	
IM-10-22	1100	± 5	1312-20J	60	0.25	2.8	21.0	78	IRON CORE
IM-10-22	1200	± 5	1312-21J	60	0.25	2.7	22.0	76	
IM-10-22	1300	± 5	1312-22J	60	0.25	2.6	23.0	75	
IM-10-22	1500	± 5	1312-23J	65	0.25	2.4	25.0	72	
IM-10-22	1600	± 5	1312-24J	65	0.25	2.3	26.0	70	
IM-10-22	1800	± 5	1312-25J	65	0.25	2.2	28.0	68	
IM-10-22	2000	± 5	1312-26J	65	0.25	2.1	29.0	67	
IM-10-22	2200	± 5	1312-27J	70	0.25	2.0	30.0	66	
IM-10-22	2400	± 5	1312-28J	70	0.25	1.9	31.0	64	
IM-10-22	2700	± 5	1312-29J	70	0.25	1.8	33.0	62	
IM-10-22	3000	± 5	1312-30J	70	0.25	1.7	35.0	61	
IM-10-22	3300	± 5	1312-31J	70	0.25	1.6	38.0	58	
IM-10-22	3600	± 5	1312-32J	70	0.25	1.5	40.0	57	
IM-10-28	1.2	± 10	4414-1K	60	7.9	170	0.075	2400	PHENOLIC CORE
IM-10-28	1.5	± 10	4414-2K	60	7.9	160	0.090	2150	
IM-10-28	1.8	± 10	4414-3K	60	7.9	140	0.135	1750	
IM-10-28	2.2	± 10	4414-4K	60	7.9	125	0.160	1600	
IM-10-28	2.7	± 10	4414-5K	60	7.9	115	0.220	1350	
IM-10-28	3.3	± 10	4414-6K	60	7.9	100	0.305	1150	
IM-10-28	3.9	± 10	4414-7K	60	7.9	95	0.450	955	
IM-10-28	4.7	± 10	4414-8K	60	7.9	90	0.560	860	
IM-10-28	5.6	± 10	4414-9K	60	7.9	80	0.745	745	
IM-10-28	6.8	± 10	4414-10K	60	7.9	75	1.05	635	
IM-10-28	8.2	± 10	4414-11K	60	7.9	68	1.40	550	
IM-10-28	10	± 10	4414-12K	60	7.9	60	1.90	460	
IM-10-28	12	± 10	4414-13K	40	2.5	53	2.65	395	
IM-10-28	15	± 10	4414-14K	40	2.5	50	3.25	355	
IM-10-28	18	± 10	4414-15K	40	2.5	45	4.15	315	
IM-10-28	22	± 10	4424-1K	50	2.5	24	0.295	725	IRON CORE
IM-10-28	27	± 10	4424-2K	45	2.5	22	0.350	660	
IM-10-28	33	± 10	4424-3K	60	2.5	19	0.550	525	
IM-10-28	39	± 10	4424-4K	55	2.5	18	0.650	485	
IM-10-28	47	± 10	4424-5K	65	2.5	16	1.00	390	
IM-10-28	56	± 10	4424-6K	65	2.5	14	1.15	360	
IM-10-28	68	± 10	4424-7K	75	2.5	13	1.85	285	
IM-10-28	82	± 10	4424-8K	75	2.5	12	2.10	265	
IM-10-28	100	± 10	4424-9K	75	2.5	12	2.50	245	
IM-10-28	120	± 10	4424-10K	95	0.79	10	4.10	195	
IM-10-31	180	± 10	31A181K	80	0.79	6	5.5	148	IRON CORE
IM-10-31	220	± 10	31A221K	80	0.79	5.5	5.9	145	
IM-10-31	270	± 10	31A271K	80	0.79	5.1	6.6	138	
IM-10-31	330	± 10	31A331K	75	0.79	4.2	7.8	122	
IM-10-31	390	± 10	31A391K	75	0.79	3.9	8.7	118	
IM-10-37	470	± 10	37A471K	80	0.79	3.7	9.0	125	IRON CORE
IM-10-37	560	± 10	37A561K	80	0.79	3.5	10.0	118	
IM-10-37	680	± 10	37A681K	75	0.79	3.2	11.2	112	
IM-10-37	820	± 10	37A821K	75	0.79	3.0	13.0	105	
IM-10-37	1000	± 10	37A102K	70	0.79	2.7	14.5	95	
IM-10-46	1500	± 10	46A152K	85	0.25	2.2	22.0	84	IRON CORE
IM-10-46	2200	± 10	46A222K	85	0.25	1.8	27.0	76	
IM-10-46	2700	± 10	46A272K	85	0.25	1.6	32.0	69	
IM-10-46	5100	± 10	46A512K	70	0.25	1.0	66.0	48	
IM-10-46	10 000	± 10	46A103K	70	0.25	0.8	70.0	47	



IM-10-22, IM-10-28, IM-10-31, IM-10-37, IM-10-46

Inductors, Commercial, Molded, Axial Leaded

Vishay Dale

MARKING

- Color coded, see packaging

ORDERING INFORMATION

IM-10-22

MODEL

22 μ H

INDUCTANCE
VALUE

$\pm 10\%$

INDUCTANCE
TOLERANCE

EZ

PACKAGE
CODE

e2

JEDEC LEAD (Pb)-FREE
STANDARD

GLOBAL PART NUMBER

I **M** **1** **0**
MODEL

E **Z**
PACKAGE
CODE

2 **2** **0**
INDUCTANCE
VALUE

K
INDUCTANCE
TOLERANCE

2 **2**
SERIES



Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.