



# Wirewound, Surface-Mount RF Chip Inductors







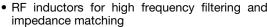
## **LINKS TO ADDITIONAL RESOURCES**

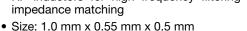


#### **TEST EQUIPMENT**

- Inductance is measured in HP4287A RF LCR meter with HP16193 fixture
- Q is measured in HP4287A RF LCR meter with HP16193 fixture
- SRF is measured in HP8753E RF network analyzer
- DCR is measured in HP4338B millohmeter

## **FEATURES**







• Coilform material: non-magnetic ceramic

Weight: 0.0008 g

 Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



FREE

## **ELECTRICAL SPECIFICATIONS**

Inductance Range: 1 nH to 120 nH

Operating Temperature: -40 °C to +125 °C Storage Temperature: -40 °C to +125 °C

Resistance to Solder Heat: 260 °C for 30 s max.

	IND.		TEST FREQ. (MHz)	Q	SRF MIN.	DCR MAX.	RATED DC CURRENT
PART NUMBER	(nH)	TOLERANCE	L&Q	MIN.	(MHz)	<b>(Ω)</b>	(mA) <sup>(1)</sup>
IMC0402ER1N0S01	1.0	0.3 nH, 0.2 nH	250	13	6000	0.045	1360
IMC0402ER1N9S01	1.9	0.3 nH, 0.2 nH	250	16	6000	0.070	1040
IMC0402ER2N0S01	2.0	0.3 nH, 0.2 nH	250	16	6000	0.070	1040
IMC0402ER2N2S01	2.2	0.3 nH, 0.2 nH	250	18	6000	0.070	960
IMC0402ER2N4S01	2.4	0.3 nH, 0.2 nH	250	16	6000	0.068	790
IMC0402ER2N7S01	2.7	0.3 nH, 0.2 nH	250	16	6000	0.120	640
IMC0402ER3N3S01	3.3	0.3 nH, 0.2 nH	250	20	6000	0.066	840
IMC0402ER3N6S01	3.6	0.3 nH, 0.2 nH	250	20	6000	0.066	840
IMC0402ER3N9K01	3.9	10 %, 5 %	250	20	6000	0.066	840
IMC0402ER4N3K01	4.3	10 %, 5 %	250	18	6000	0.091	700
IMC0402ER4N7K01	4.7	10 %, 5 %	250	15	4775	0.130	640
IMC0402ER5N1K01	5.1	10 %, 5 %	250	23	5800	0.083	800
IMC0402ER5N6K01	5.6	10 %, 5 %	250	23	5800	0.083	760
IMC0402ER6N2K01	6.2	10 %, 5 %	250	23	5800	0.083	760
IMC0402ER6N8K01	6.8	10 %, 5 %	250	20	4800	0.083	680
IMC0402ER7N5K01	7.5	10 %, 5 %	250	25	5800	0.104	680
IMC0402ER8N2K01	8.2	10 %, 5 %	250	25	4400	0.104	680
IMC0402ER8N7K01	8.7	10 %, 5 %	250	18	4100	0.200	480
IMC0402ER9N0K01	9.0	10 %, 5 %	250	25	4160	0.104	680
IMC0402ER9N5K01	9.5	10 %, 5 %	250	18	4000	0.200	680
IMC0402ER10NJ01	10	5 %, 2 %	250	23	3900	0.195	480
IMC0402ER11NJ01	11	5 %, 2 %	250	26	3680	0.120	640
IMC0402ER12NJ01	12	5 %, 2 %	250	26	3600	0.120	640
IMC0402ER13NJ01	13	5 %, 2 %	250	24	3450	0.210	560
IMC0402ER15NJ01	15	5 %, 2 %	250	26	3280	0.172	560
IMC0402ER16NJ01	16	5 %, 2 %	250	24	3100	0.220	560
IMC0402ER18NJ01	18	5 %, 2 %	250	25	3100	0.230	420
IMC0402ER19NJ01	19	5 %, 2 %	250	26	3040	0.202	480
IMC0402ER20NJ01	20	5 %, 2 %	250	25	3000	0.250	420
IMC0402ER22NJ01	22	5 %, 2 %	250	25	2800	0.300	400
IMC0402ER23NJ01	23	5 %, 2 %	250	26	2720	0.214	400
IMC0402ER24NJ01	24	5 %, 2 %	250	25	2700	0.298	400
IMC0402ER27NJ01	27	5 %, 2 %	250	26	2480	0.300	400

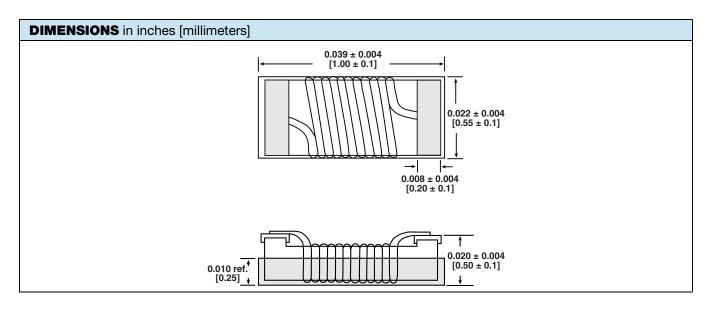
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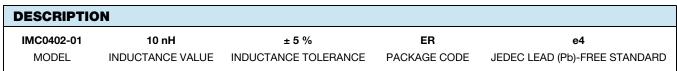
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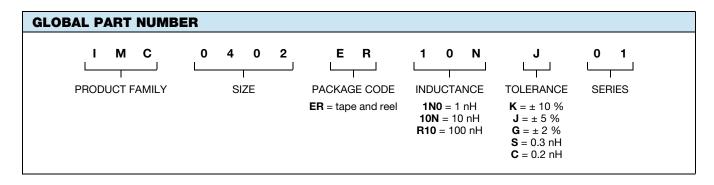
STANDARD ELECTRICAL SPECIFICATIONS											
	IND.		TEST FREQ. (MHz)	Q	SRF MIN.	DCR MAX.	RATED DC CURRENT				
PART NUMBER	(nH)	TOLERANCE	L & Q	MIN.	(MHz)	<b>(</b> Ω <b>)</b>	(mA) <sup>(1)</sup>				
IMC0402ER30NJ01	30	5 %, 2 %	250	25	2350	0.300	400				
IMC0402ER33NJ01	33	5 %, 2 %	250	24	2350	0.350	400				
IMC0402ER36NJ01	36	5 %, 2 %	250	26	2320	0.403	320				
IMC0402ER39NJ01	39	5 %, 2 %	250	25	2100	0.550	320				
IMC0402ER40NJ01	40	5 %, 2 %	250	26	2240	0.438	320				
IMC0402ER43NJ01	43	5 %, 2 %	250	25	2030	0.810	100				
IMC0402ER47NJ01	47	5 %, 2 %	200	26	2100	0.830	150				
IMC0402ER51NJ01	51	5%	200	25	1750	0.820	100				
IMC0402ER56NJ01	56	5%	200	22	1760	0.970	100				
IMC0402ER68NJ01	68	5%	200	22	1620	1.120	100				
IMC0402ER82NJ01	82	5%	150	20	1500	1.250	100				
IMC0402ERR10J01	100	5%	150	20	1300	2.520	100				
IMC0402ERR12J01	120	5%	150	20	1100	2.660	100				

## Note

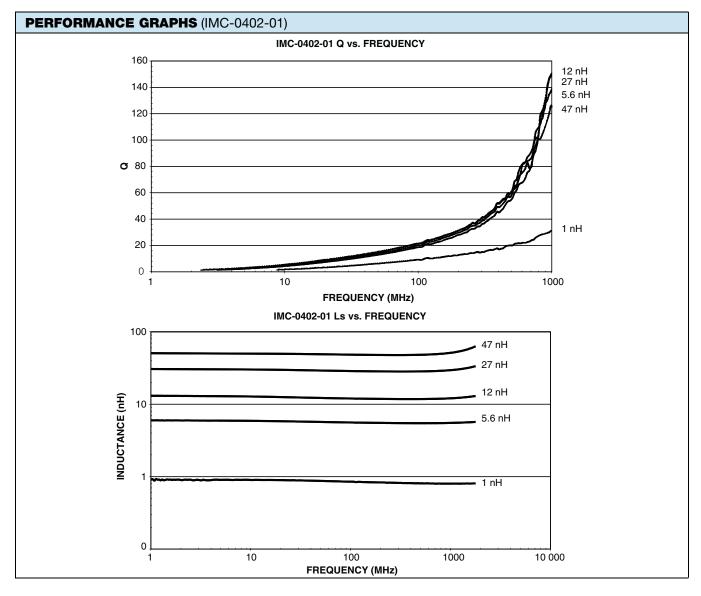
 $<sup>^{(1)}</sup>$  Value obtained when current flows and temperature has risen 15  $^{\circ}\text{C}$ 

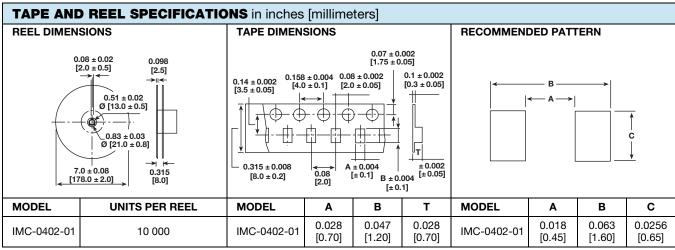














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