

# VISHAY/DALE Surface Mount Inductors

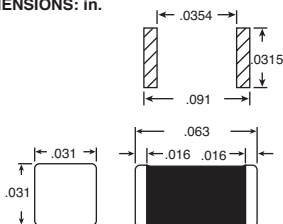
RoHS Compliant This product is RoHS compliant.

## VISHAY IMC-0603 SURFACE MOUNT INDUCTORS HIGH FREQUENCY, LASER SPIRAL, COATED

**Features:**

- High self-resonant frequency values
- High Q values relative to size at higher frequencies
- Coated coil provides protection and moisture resistance
- Compatible with vapor phase and infrared reflow soldering
- L and Q value not affected by mounting orientation

DIMENSIONS: in.



MOUSER STOCK NO.	L (nH)	Tol. ±	Q Min	Test Freq MHz	SRF Min. MHz	DCR Max. (Ω)	Rated DC Curr. (mA)	Price Each			Reel Qty.	Price Per Piece
								1	50	100		
70-IMC0603ER2N2S	2.2	.3nH	8	100	6000	0.09	500	.12	.09	.08	3000	.063
70-IMC0603ER3N3S	3.3	.3nH	9	100	5500	0.12	500	.12	.09	.08	3000	.063
70-IMC0603ER4N7J	4.7	5%	9	100	4800	0.17	450	.12	.09	.08	3000	.063
70-IMC0603ER10NJ	10	5%	10	100	2800	0.32	400	.12	.09	.08	3000	.063
70-IMC0603ER22NJ	22	5%	10	100	2000	0.5	300	.12	.09	.08	3000	.063
70-IMC0603ER33NJ	33	5%	10	100	1800	0.6	300	.12	.09	.08	3000	.063
70-IMC0603ER47NJ	47	5%	11	100	1800	0.95	250	.12	.09	.08	3000	.063
70-IMC0603ER82NJ	82	5%	12	100	1500	1.5	250	.12	.09	.08	3000	.063
70-IMC0603ERR10J	100	5%	12	100	1300	1.8	200	.12	.09	.08	3000	.063

For quantities greater than listed, call for quote.

**Specifications:**

- Operating temperature: -40°C to +100°C
- Core Material: Ceramic

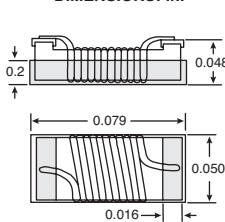
Inductors

## VISHAY IMC-0805-01 SURFACE MOUNT INDUCTORS HIGH FREQUENCY

**Features:**

- High self-resonant frequency values
- High Q values relative to size at higher frequencies
- Wirewound construction
- Compatible with vapor phase and infrared reflow soldering

DIMENSIONS: in.



MOUSER STOCK NO.	L (nH)	Tol. ±	Q Min	Test Freq MHz	SRF Min. MHz	DCR Max. (Ω)	Rated DC Curr. (mA)	Price Each			Reel Qty.	Price Per Piece
								1	50	100		
70-IMC0805ER2N2S01	2.2	.3nH	50	1000	6000	0.06	600	.15	.14	.13	2000	.115
70-IMC0805ER2N7S01	2.7	.3nH	35	1000	6000	0.08	600	.15	.14	.13	2000	.115
70-IMC0805ER5N6J01	5.6	5%	60	1000	5800	0.08	600	.15	.14	.13	2000	.115
70-IMC0805ER10NJ01	10	5%	60	500	4800	0.08	600	.15	.14	.13	2000	.115
70-IMC0805ER22NJ01	22	5%	60	500	3300	0.10	600	.15	.14	.13	2000	.115
70-IMC0805ER27NJ01	27	5%	60	500	2600	0.12	600	.15	.14	.13	2000	.115
70-IMC0805ER47NJ01	47	5%	60	500	2100	0.15	500	.15	.14	.13	2000	.115
70-IMC0805ERR10J01	100	5%	60	500	1200	0.43	500	.15	.14	.13	2000	.115
70-IMC0805ERR22J01	220	5%	50	250	860	1.10	300	.15	.14	.13	2000	.115
70-IMC0805ERR27J01	270	5%	45	250	850	1.46	250	.15	.14	.13	2000	.115
70-IMC0805ERR47J01	470	5%	45	100	750	0.99	330	.15	.14	.13	2000	.115
70-IMC0805ERR10J01	1000	5%	35	50	480	2.50	120	.15	.14	.13	2000	.115
70-IMC0805ER2R2J01	2200	5%	15	7.96	100	1.15	320	.15	.14	.13	2000	.115
70-IMC0805ER2R7J01	2700	5%	15	7.96	100	1.25	320	.16	.15	.14	2000	.125

For quantities greater than listed, call for quote.

**Specifications:**

- Operating temperature: -40°C to +125°C
- Core Material: Ceramic for 2.2nH to 390nH
- Ferrite for 470nH to 10,000nH

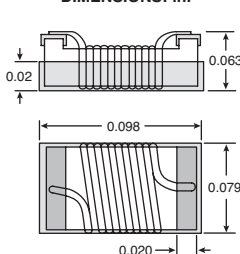
Vishay

## VISHAY IMC-1008 SURFACE MOUNT INDUCTORS HIGH FREQUENCY

**Features:**

- High self-resonant frequency values
- High Q values at higher frequencies
- Wirewound construction
- Compatible with vapor phase and infrared reflow soldering

DIMENSIONS: in.



MOUSER STOCK NO.	L (nH)	Tol. ±	Q Min	Test Freq MHz	SRF Min. MHz	DCR Max. (Ω)	Rated DC Curr. (mA)	Price Each			Reel Qty.	Price Per Piece
								1	50	100		
70-IMC1008ER10NJ	10	5%	50	1000	4300	0.08	600	.15	.14	.13	2000	.115
70-IMC1008ER22NJ	22	5%	60	350	2500	0.10	600	.15	.14	.13	2000	.115
70-IMC1008ER27NJ	27	5%	60	350	1800	0.10	600	.15	.14	.13	2000	.115
70-IMC1008ER47NJ	47	5%	60	350	1500	0.10	600	.15	.14	.13	2000	.115
70-IMC1008ERR10J	100	5%	60	350	1100	0.18	500	.15	.14	.13	2000	.115
70-IMC1008ERR22J	220	5%	45	100	730	0.45	500	.15	.14	.13	2000	.115
70-IMC1008ERR27J	270	5%	45	100	650	0.75	500	.15	.14	.13	2000	.115
70-IMC1008ERR47J	470	5%	45	100	480	1.30	400	.15	.14	.13	2000	.115
70-IMC1008ER1R0J	1000	5%	35	50	310	3.60	90	.15	.14	.13	2000	.115
70-IMC1008ER2R2J	2200	5%	30	7.96	105	1.55	200	.16	.15	.14	2000	.125
70-IMC1008ER2R7J	2700	5%	30	7.96	70	1.70	195	.16	.15	.14	2000	.125
70-IMC1008ER4R7J	4700	5%	30	7.96	43	2.30	175	.16	.15	.14	2000	.125
70-IMC1008ER6R8J	6800	5%	25	7.96	39	2.80	165	.16	.15	.14	2000	.125
70-IMC1008ER8R2J	8200	5%	25	7.96	36	3.05	160	.16	.15	.14	2000	.125

For quantities greater than listed, call for quote.

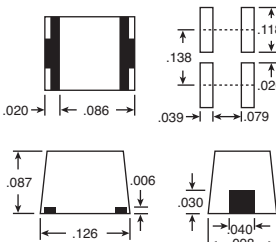
**Specifications:**

- Inductance and Q measured on HP4191A
- SRF measured on HP8753B
- Temperature range: -40°C to +85°C
- Core material: non-magnetic

## VISHAY IMC-1210 MOLDED SURFACE MOUNT INDUCTORS

**Features:**

- Printed marking
- Compatible with vapor phase and infrared reflow soldering
- Molded construction provides superior strength and moisture resistance



MOUSER STOCK NO.	L (nH)	Tol. ±	Q Min	Test Freq MHz	SRF Min. MHz	DCR Max. (Ω)	Rated DC Curr. (mA)	Price Each			Reel Qty.	Price Per Piece
								1	50	100		
70-IMC1210ERR10M	0.1	20%	30	50	700	0.44	450	.64	.53	.39	2000	.29
70-IMC1210ERR22M	0.22	20%	30	25.2	350	0.32	484	.64	.53	.39	2000	.29
70-IMC1210ER1R0K	1	10%	30	7.96	120	0.7	400	.47	.42	.38	2000	.25
70-IMC1210ER2R2K	2.2	10%	30	7.96	75	1	320	.47	.42	.38	2000	.25
70-IMC1210ER2R7K	2.7	10%	30	7.96	70	1.1	290	.47	.42	.38	2000	.25
70-IMC1210ER3R3K	3.3	10%	30	7.96	60	1.2	260	.47	.42	.38	2000	.25
70-IMC1210ER4R7K	4.7	10%	30	7.96	50	1.5	224	.47	.42	.38	2000	.25
70-IMC1210ER100K	10	10%	30	2.52	33	2.1	189	.47	.42	.38	2000	.25
70-IMC1210ER220K	22	10%	30	2.52	19	3.7	145	.55	.52	.51	2000	.46
70-IMC1210ER101K	100	10%	20	0.796	9	14	73	.55	.52	.51	2000	.46

For quantities greater than listed, call for quote.

**Specifications:**

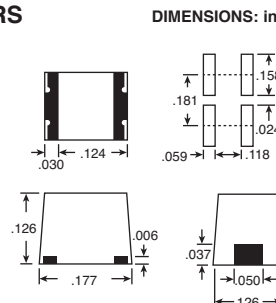
- Operating temperature: -55°C to +125°C
- Core material: Ceramic for 3.3nH to 1000nH, ferrite for 1200nH to 22,000nH

DIMENSIONS: in.

## VISHAY IMC-1812 MOLDED SURFACE MOUNT INDUCTORS

**Features:**

- Molded construction provides superior strength and moisture resistance
- Printed marking
- Compatible with vapor phase and infrared reflow soldering



MOUSER STOCK NO.	L (nH)	Tol. ±	Q Min	Test Freq MHz	SRF Min. MHz	DCR Max. (Ω)	Rated DC Curr. (mA)	Price Each			Reel Qty.	Price Per Piece
								1	50	100		
70-IMC1812ER1R0K	1	10%	50	7.96	100	0.5	450	1.00	.94	.86	500	.78
70-IMC1812ER1R2K	1.2	10%	50	7.96	80	0.55	430	1.00	.94	.86	500	.78
70-IMC1812ER1R5K	1.5	10%	50	7.96	70	0.6	410	1.00	.94	.86	500	.78
70-IMC1812ER2R7K	2.7	10%	50	7.96	50	0.75	370	1.00	.94	.86	500	.78
70-IMC1812ER4R7K	4.7	10%	50	7.96	35	1	315	1.00	.94	.86	500	.78
70-IMC1812ER5R6K	5.6	10%	50	7.96	33	1.1	300	1.00	.94	.86	500	.78
70-IMC1812ER100K	10	10%	50	2.52	20	1.6	250	1.00	.94	.86	500	.78
70-IMC1812ER150K	15	10%	50	2.52	17	2.5	200	1.02	.96	.91	500	.88
70-IMC1812ER220K	22	10%	50	2.52	13	3.2	180	1.02	.96	.91	500	.88
70-IMC1812ER470K	47	10%	50	2.52	10	5	140	1.02	.96	.91	500	.88
70-IMC1812ER101K	100	10%	40	0.79	8	8	110	1.03	.96	.91	500	.88
70-IMC1812ER221K	220	10%	40	0.79	4	10	100	1.03	.96	.91	500	.88
70-IMC1812ER331K	330	10%	40	0.79	3.5	14	85	1.03	.96	.91	500	.88
70-IMC1812ER102K	1000	10%	30	0.25	2.5	40	30	1.95	.90	.85	500	.77

For quantities greater than listed, call for quote.

**Specifications:**

- Inductance tolerance: ±10%
- Temperature range: -40°C to +105°C
- Core material: powdered iron for 1.0μH to 100μH, ferrite for 150μH to 1000μH

