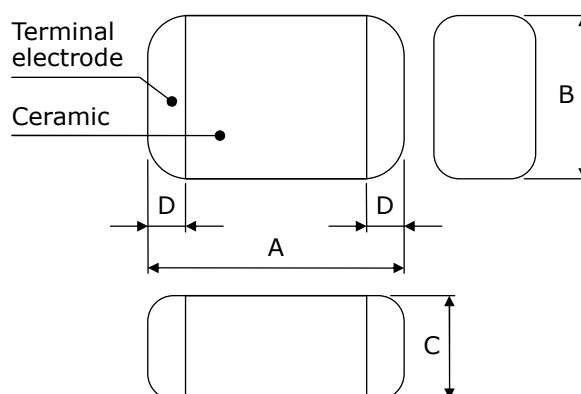


HIGH FREQUENCY MULTILAYER CHIP INDUCTORS EFH SERIES

FEATURES

- The EFH series is designed for high frequency application up to GHz band circuit due to low inductance.
- High SRF exhibits high Q value at high frequency.
- Monolithic inorganic material construction for high reliability.
- Excellent for high frequency RF applications such as cellular phones, pagers, PDAs, computer communications, etc.

DIMENSIONS

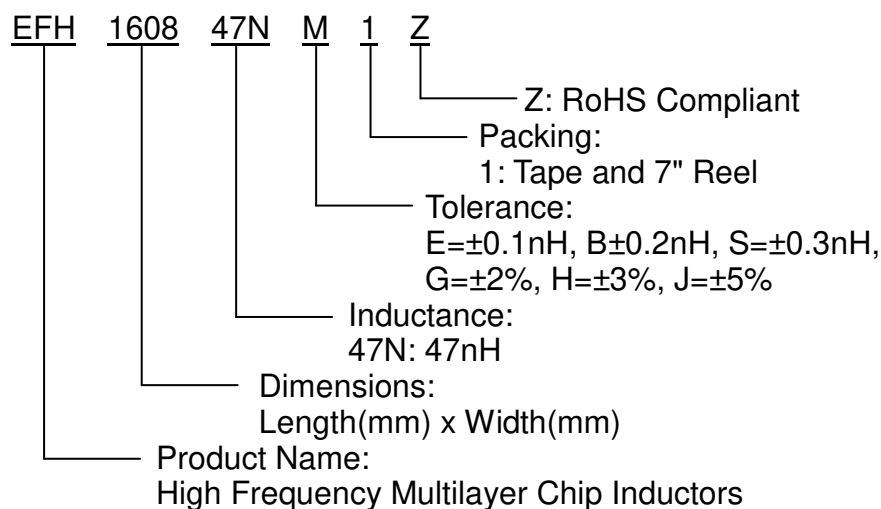


UNIT: mm

Type	A	B	C	D
EFH0603(0201)	0.6±0.03	0.3±0.03	0.3±0.03	0.1~0.2
EFH1005(0402)	1.0±0.10	0.50±0.10	0.5±0.10	0.1~0.3
EFH1608(0603)	1.6±0.15	0.80±0.15	0.8±0.15	0.2~0.6
EFH2012(0805)	2.0±0.20	1.25±0.20	※	0.2~0.8

※ See attach "product's thickness" dimensions.

PART NUMBERING SYSTEM





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■ ELECTRICAL CHARACTERISTICS

◆ TYPE: EFH 1005

Part No.	Inductance (nH)	Tolerance	Q (Min.)	L, Q Test Frequency (MHz)	SRF (GHz) Min.	DC Resistance (Ω)Max.	Rating Current (mA)Max.
EFH0603-1N0	1.0	E,B,S	4	100	10	0.11	470
EFH0603-1N2	1.2	E,B,S	4	100	10	0.12	450
EFH0603-1N5	1.5	E,B,S	4	100	10	0.13	430
EFH0603-1N8	1.8	E,B,S	4	100	10	0.16	390
EFH0603-2N0	2.0	E,B,S	4	100	10	0.17	380
EFH0603-2N1	2.1	E,B,S	4	100	10	0.17	380
EFH0603-2N2	2.2	E,B,S	4	100	8.8	0.19	360
EFH0603-2N4	2.4	E,B,S	4	100	8.3	0.20	350
EFH0603-2N7	2.7	E,B,S	4	100	7.7	0.21	340
EFH0603-3N0	3.0	E,B,S	4	100	7.2	0.22	330
EFH0603-3N3	3.3	E,B,S	4	100	6.7	0.23	320
EFH0603-3N6	3.6	E,B,S	4	100	6.4	0.25	310
EFH0603-3N9	3.9	E,B,S	4	100	6.0	0.27	300
EFH0603-4N3	4.3	E,B,S	4	100	5.1	0.30	280
EFH0603-4N7	4.7	E,B,S	4	100	5.3	0.30	280
EFH0603-5N1	5.1	E,B,S	4	100	5.0	0.33	270
EFH0603-5N6	5.6	E,B,S	4	100	4.6	0.36	260
EFH0603-6N2	6.2	E,B,S	4	100	4.2	0.38	250
EFH0603-6N8	6.8	H,J	4	100	3.9	0.39	250
EFH0603-7N5	7.5	H,J	4	100	3.6	0.41	240
EFH0603-8N2	8.2	H,J	4	100	3.4	0.45	230
EFH0603-9N1	9.1	H,J	4	100	3.2	0.48	220
EFH0603-10N	10	H,J	4	100	3.2	0.51	220
EFH0603-12N	12	H,J	4	100	2.7	0.68	190
EFH0603-15N	15	H,J	4	100	2.3	0.71	180
EFH0603-18N	18	H,J	4	100	2.1	0.81	170
EFH0603-22N	22	H,J	4	100	1.8	1.00	150
EFH0603-27N	27	H,J	4	100	1.8	1.35	120
EFH0603-33N	33	H,J	4	100	1.7	1.47	110



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◆ TYPE: EFH 1005

Part No.	Inductance (nH)	Tolerance	Q (Min.)	L, Q Test Frequency (MHz)	SRF (GHz) Min.	DC Resistance (Ω)Max.	Rating Current (mA)Max.
EFH1005-1N0	1.0	E,B,S	8	100	6	0.10	300
EFH1005-1N2	1.2	E,B,S	8	100	6	0.10	300
EFH1005-1N3	1.3	E,B,S	8	100	6	0.10	300
EFH1005-1N5	1.5	E,B,S	8	100	6	0.10	300
EFH1005-1N8	1.8	E,B,S	8	100	6	0.10	300
EFH1005-2N0	2.0	E,B,S	8	100	6	0.12	300
EFH1005-2N2	2.2	E,B,S	8	100	6	0.15	300
EFH1005-2N4	2.4	E,B,S	8	100	6	0.16	300
EFH1005-2N7	2.7	E,B,S	8	100	6	0.17	300
EFH1005-3N0	3.0	E,B,S	8	100	6	0.18	300
EFH1005-3N3	3.3	E,B,S	8	100	6	0.19	300
EFH1005-3N6	3.6	E,B,S	8	100	6	0.19	300
EFH1005-3N9	3.9	E,B,S	8	100	6	0.19	300
EFH1005-4N3	4.3	E,B,S	8	100	6	0.21	300
EFH1005-4N7	4.7	E,B,S	8	100	6	0.23	300
EFH1005-5N1	5.1	E,B,S	8	100	6	0.24	300
EFH1005-5N6	5.6	E,B,S	8	100	5.3	0.26	300
EFH1005-6N2	6.2	E,B,S	8	100	4.3	0.27	300
EFH1005-6N8	6.8	G,J	8	100	4.2	0.29	300
EFH1005-7N5	7.5	G,J	8	100	4.2	0.31	300
EFH1005-8N2	8.2	G,J	8	100	3.6	0.33	300
EFH1005-9N1	9.1	G,J	8	100	3.4	0.34	300
EFH1005-10N	10	G,J	8	100	3.4	0.35	300
EFH1005-11N	11	G,J	8	100	3.4	0.35	300
EFH1005-12N	12	G,J	8	100	3.0	0.41	300
EFH1005-15N	15	G,J	8	100	2.3	0.46	300
EFH1005-18N	18	G,J	8	100	2.2	0.51	300
EFH1005-22N	22	G,J	8	100	1.9	0.58	300
EFH1005-27N	27	G,J	8	100	1.7	0.67	300
EFH1005-33N	33	G,J	8	100	1.5	0.67	200
EFH1005-39N	39	G,J	8	100	1.2	1.06	200
EFH1005-47N	47	G,J	8	100	1.0	1.15	200
EFH1005-56N	56	G,J	8	100	0.8	1.20	200
EFH1005-68N	68	G,J	8	100	0.8	1.25	180
EFH1005-82N	82	G,J	8	100	0.6	1.60	150
EFH1005-R10	100	G,J	8	100	0.8	1.60	150
EFH1005-R12	120	G,J	8	100	0.6	1.60	150
EFH1005-R15	150	G,J	8	100	0.5	2.99	140
EFH1005-R18	180	G,J	8	100	0.5	3.38	150
EFH1005-R22	220	G,J	8	100	0.5	3.77	120
EFH1005-R27	270	G,J	8	100	0.4	4.90	110



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◆ TYPE: EFH 1608

Part No.	Inductance (nH)	Tolerance	Q (Min.)	L, Q Test Frequency (MHz)	SRF (GHz) Min.	DC Resistance (Ω)Max.	Rating Current (mA)Max.
EFH1608-1N0	1.0	E,B,S	8	100	10	0.05	300
EFH1608-1N2	1.2	E,B,S	8	100	10	0.05	300
EFH1608-1N5	1.5	E,B,S	8	100	10	0.10	300
EFH1608-1N8	1.8	E,B,S	8	100	6	0.10	300
EFH1608-2N2	2.2	E,B,S	8	100	6	0.10	300
EFH1608-2N7	2.7	E,B,S	10	100	6	0.10	300
EFH1608-3N3	3.3	E,B,S	10	100	6	0.12	300
EFH1608-3N9	3.9	E,B,S	10	100	6	0.14	300
EFH1608-4N7	4.7	E,B,S	10	100	4	0.16	300
EFH1608-5N6	5.6	E,B,S	10	100	4	0.18	300
EFH1608-6N8	6.8	G,J	10	100	4	0.22	300
EFH1608-8N2	8.2	G,J	10	100	3.5	0.24	300
EFH1608-10N	10	G,J	12	100	3.4	0.26	300
EFH1608-12N	12	G,J	12	100	2.6	0.28	300
EFH1608-15N	15	G,J	12	100	2.3	0.32	300
EFH1608-18N	18	G,J	12	100	2.0	0.35	300
EFH1608-22N	22	G,J	12	100	1.6	0.40	300
EFH1608-27N	27	G,J	12	100	1.4	0.45	300
EFH1608-33N	33	G,J	12	100	1.2	0.55	300
EFH1608-39N	39	G,J	12	100	1.1	0.60	300
EFH1608-47N	47	G,J	12	100	0.9	0.70	300
EFH1608-56N	56	G,J	12	100	0.9	0.75	300
EFH1608-68N	68	G,J	12	100	0.7	0.85	300
EFH1608-82N	82	G,J	12	100	0.6	0.95	300
EFH1608-R10	100	G,J	12	100	0.6	1.00	300
EFH1608-R12	120	G,J	8	50	0.5	1.20	300
EFH1608-R15	150	G,J	8	50	0.6	1.20	300
EFH1608-R18	180	G,J	8	50	0.4	1.30	300
EFH1608-R22	220	G,J	8	50	0.4	1.50	300
EFH1608-R27	270	G,J	8	50	0.4	1.90	300
EFH1608-R33	330	G,J	8	50	0.35	2.10	300
EFH1608-R39	390	G,J	8	50	0.35	2.30	150
EFH1608-R47	470	G,J	8	50	0.30	2.60	150



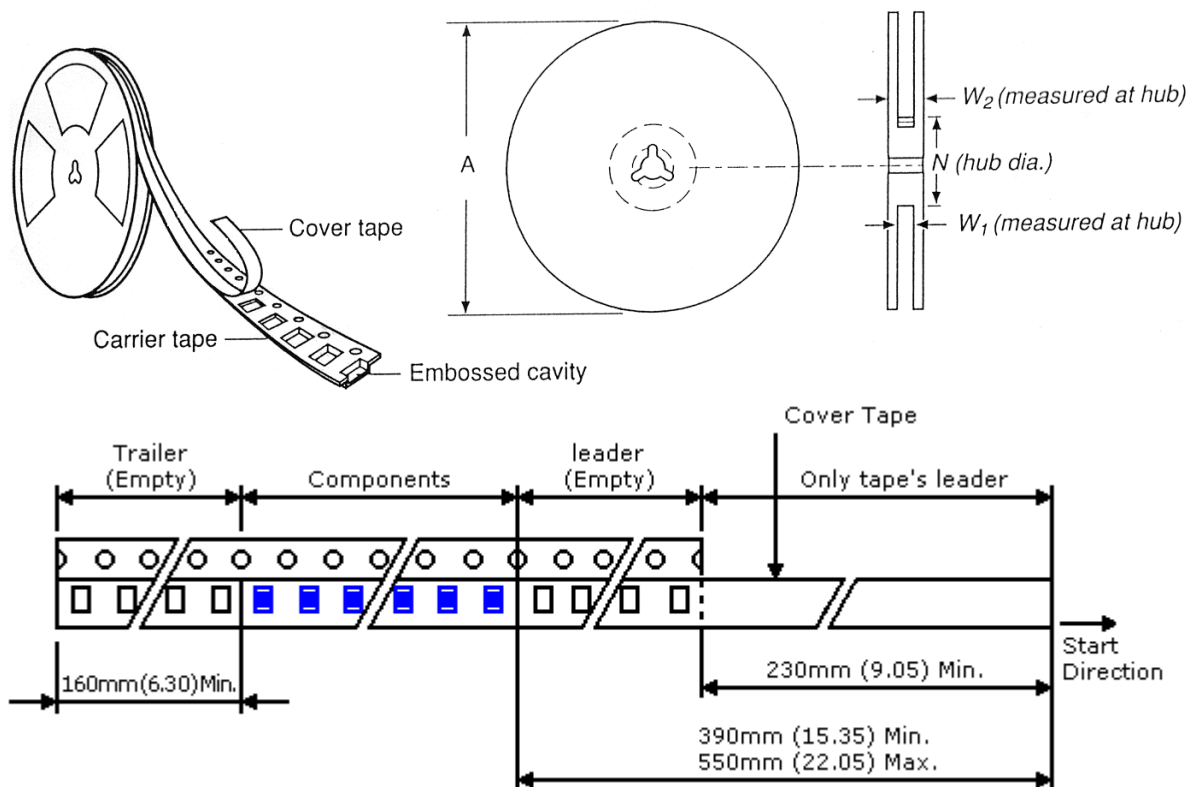
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◆ TYPE: EFH 2012

Part No.	Inductance (nH)	Tolerance	Q (Min.)	L, Q Test Frequency (MHz)	SRF (GHz) Min.	DC Resistance (Ω)Max.	Rating Current (mA)Max.	Product Thickness (mm)
EFH2012-1N0	1.0	E,B,S	10	100	4	0.10	300	0.85±0.2
EFH2012-1N2	1.2	E,B,S	10	100	4	0.10	300	0.85±0.2
EFH2012-1N5	1.5	E,B,S	10	100	4	0.10	300	0.85±0.2
EFH2012-1N8	1.8	E,B,S	10	100	4	0.10	300	0.85±0.2
EFH2012-2N2	2.2	E,B,S	10	100	4	0.10	300	0.85±0.2
EFH2012-2N7	2.7	E,B,S	12	100	4	0.10	300	0.85±0.2
EFH2012-3N3	3.3	E,B,S	12	100	4	0.13	300	0.85±0.2
EFH2012-3N9	3.9	E,B,S	12	100	4	0.15	300	0.85±0.2
EFH2012-4N7	4.7	E,B,S	12	100	3.5	0.20	300	0.85±0.2
EFH2012-5N6	5.6	E,B,S	15	100	3.2	0.23	300	0.85±0.2
EFH2012-6N8	6.8	H,J	15	100	2.8	0.25	300	0.85±0.2
EFH2012-8N2	8.2	H,J	15	100	2.4	0.28	300	0.85±0.2
EFH2012-10N	10	H,J	15	100	2.1	0.30	300	0.85±0.2
EFH2012-12N	12	H,J	15	100	1.9	0.35	300	0.85±0.2
EFH2012-15N	15	H,J	15	100	1.6	0.40	300	0.85±0.2
EFH2012-18N	18	H,J	15	100	1.5	0.45	300	0.85±0.2
EFH2012-22N	22	H,J	18	100	1.4	0.50	300	0.85±0.2
EFH2012-27N	27	H,J	18	100	1.3	0.55	300	0.85±0.2
EFH2012-33N	33	H,J	18	100	1.2	0.60	300	0.85±0.2
EFH2012-39N	39	H,J	18	100	1.0	0.65	300	0.85±0.2
EFH2012-47N	47	H,J	18	100	0.9	0.70	300	0.85±0.2
EFH2012-56N	56	H,J	18	100	0.8	0.75	300	0.85±0.2
EFH2012-68N	68	H,J	18	100	0.7	0.80	300	0.85±0.2
EFH2012-82N	82	H,J	18	100	0.6	0.90	300	0.85±0.2
EFH2012-R10	100	H,J	18	100	0.6	0.90	300	0.85±0.2
EFH2012-R12	120	H,J	13	50	0.5	0.95	300	0.85±0.2
EFH2012-R15	150	H,J	13	50	0.5	1.00	300	1.25±0.2
EFH2012-R18	180	H,J	13	50	0.4	1.10	300	1.25±0.2
EFH2012-R22	220	H,J	12	50	0.35	1.20	300	1.25±0.2
EFH2012-R27	270	H,J	12	50	0.30	1.30	300	1.25±0.2
EFH2012-R33	330	H,J	12	50	0.25	1.40	300	1.25±0.2
EFH2012-R39	390	H,J	10	50	0.25	1.40	300	1.25±0.2
EFH2012-R47	470	H,J	10	50	0.20	2.00	300	1.25±0.2
EFH2012-R56	560	H,J	10	50	0.18	5.00	50	1.25±0.2
EFH2012-R68	680	H,J	10	50	0.16	5.50	50	1.25±0.2

TAPE & REEL PACKAGING

■ Packaging - Cover Tape



Reel Dimensions		
Reel type	W=8mm	W=12mm
A	Φ178mm	Φ178mm
N	Φ50mm min.	Φ50mm min.
W ₁	8.4+1.5mm	12.4+2.0mm
W ₂	14.4mm max.	18.4mm max.

■ Packaging Quantity

Type	Reel/Tape
0603	15,000
1005	10,000
1608	4,000
201208	4,000
201212	3,000