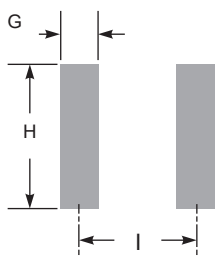


High Frequency, High Current Power Inductors

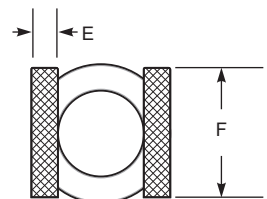
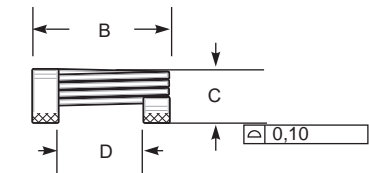
SHAPE AND DIMENSIONS(UNIT:mm):

RECOMMENDED PATTERNS:

EFAC1010



Recommended Land Pattern



Part number	Weight(g)
EFAC1010-23N	0.49
EFAC1010-46N	0.65
EFAC1010-79N	0.82
EFAC1010-117	0.98
EFAC1010-147	1.23



- Excellent Q factors – up to 230 at 100 MHz!
- Current handling as high as 57 Amps
- Inductance values from 22 to 257 nH

Environmental RoHS compliant, halogen free

Terminations RoHS compliant tin-silver over copper

Ambient temperature -40°C to +125°C with I_{rms} current

Maximum part temperature +155°C (ambient + temp rise).

Storage temperature Component: -40°C to +155°C.

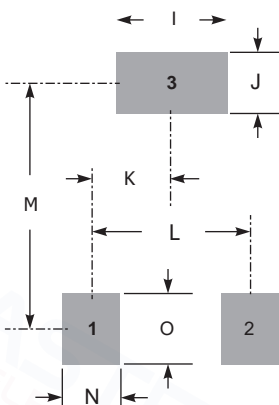
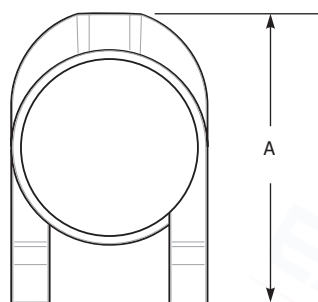
Tape and reel packaging: -40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

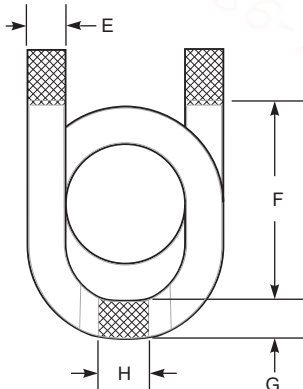
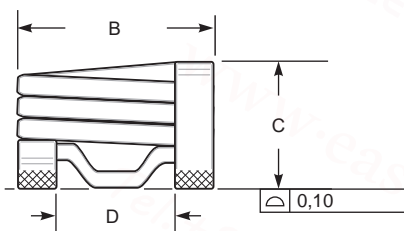
Temperature Coefficient of Inductance (TCL) +5 to +70 ppm/°C

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

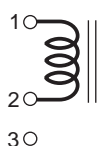
EFAC2014



Recommended Land Pattern

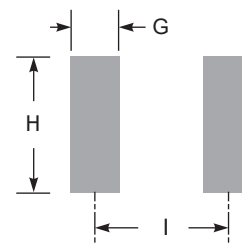
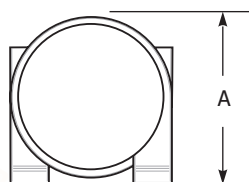


Part number	Weight(g)
EFAC2014-33N	1.6
EFAC2014-66N	2.3
EFAC2014-117	3.1
EFAC2014-157	3.6
EFAC2014-207	4.4
EFAC2014-257	5.0

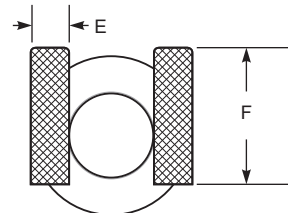
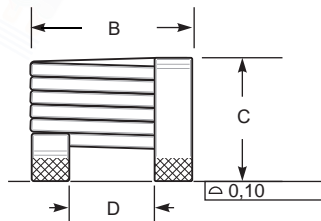


Caution:
Terminal 3 is provided for mounting stability only. This terminal is connected to the winding of the inductor and must not be connected to ground or any circuitry.

EFAC1212



Recommended Land Pattern



Part number	Weight(g)
EFAC1212-22N	2.2
EFAC1212-42N	2.7
EFAC1212-66N	3.2
EFAC1212-90N	3.7
EFAC1212-117	4.2

High Frequency, High Current Power Inductors

DIMENSIONS(UNIT:mm):

Eastever P/N	A (max)	B (max)	C (max)	D (min)	E Typ	F	G	H	I	J	K	L	M	N	O
EFAC1010-230NM	10.0	10.0	3.60	5.36	1.75	8.55±0.25	2.54	9.53	7.91	-	-	-	-	-	-
EFAC1010-460NM	10.0	10.0	4.10	5.36	1.75	8.55±0.25	2.54	9.53	7.91	-	-	-	-	-	-
EFAC1010-790NM	10.0	10.0	4.80	5.36	1.75	8.55±0.25	2.54	9.53	7.91	-	-	-	-	-	-
EFAC1010-117NM	10.0	10.0	5.60	5.36	1.75	8.55±0.25	2.54	9.53	7.91	-	-	-	-	-	-
EFAC1010-147NM	10.0	10.0	6.10	5.36	1.75	8.55±0.25	2.54	9.53	7.91	-	-	-	-	-	-
EFAC1212-220NM	12.0	11.5	6.60	5.56	2.54	9.07±1.02	3.30	10.34	8.84	-	-	-	-	-	-
EFAC1212-420NM	12.0	11.5	7.60	5.56	2.54	9.07±1.02	3.30	10.34	8.84	-	-	-	-	-	-
EFAC1212-660NM	12.0	11.5	8.80	5.56	2.54	9.07±1.02	3.30	10.34	8.84	-	-	-	-	-	-
EFAC1212-900NM	12.0	11.5	10.4	5.56	2.54	9.07±1.02	3.30	10.34	8.84	-	-	-	-	-	-
EFAC1212-117NM	12.0	11.5	11.3	5.56	2.54	9.07±1.02	3.30	10.34	8.84	-	-	-	-	-	-
EFAC2014-330NM	19.56	13.6	5.99	7.52	2.54	16.08±1.02	2.54	3.30	7.37	4.06	5.21	10.41	16.33	3.81	4.70
EFAC2014-660NM	19.56	13.6	7.09	7.52	2.54	16.08±1.02	2.54	3.30	7.37	4.06	5.21	10.41	16.33	3.81	4.70
EFAC2014-117NM	19.56	13.6	8.31	7.52	2.54	16.08±1.02	2.54	3.30	7.37	4.06	5.21	10.41	16.33	3.81	4.70
EFAC2014-157NM	19.56	13.6	9.19	7.52	2.54	16.08±1.02	2.54	3.30	7.37	4.06	5.21	10.41	16.33	3.81	4.70
EFAC2014-207NM	19.56	13.6	10.4	7.52	2.54	16.08±1.02	2.54	3.30	7.37	4.06	5.21	10.41	16.33	3.81	4.70
EFAC2014-257NM	19.56	13.6	11.4	7.52	2.54	16.08±1.02	2.54	3.30	7.37	4.06	5.21	10.41	16.33	3.81	4.70

Electrical Characteristics @25 °C :

Eastever P/N	Inductance +20% (nH)	Q typ	Q test fred (MHz)	SRF typ (MHz)	DCR (mOhm)		Irms (A)		Coilcraft P/N
					typ	max	20 °C rlse	40 °C rlse	
EFAC1010-230NM	23.5	95	100	923	1.05	1.20	18.0	26.0	1010VS-23NME
EFAC1010-460NM	46.5	150	100	562	1.50	1.62	17.9	25.5	1010VS-46NME
EFAC1010-790NM	79.0	135	50	386	1.95	2.11	17.8	25.0	1010VS-79NME
EFAC1010-117NM	111	150	50	382	2.53	2.73	15.7	22.0	1010VS-111ME
EFAC1010-147NM	146	140	50	433	3.08	3.33	14.1	19.3	1010VS-141ME
EFAC1212-220NM	22.0	200	100	918	0.48	0.55	40.5	57.0	1212VS-22NME
EFAC1212-420NM	42.0	195	50	577	0.70	0.77	38.0	52.0	1212VS-42NME
EFAC1212-660NM	66.0	200	50	480	0.90	0.99	35.0	48.0	1212VS-66NME
EFAC1212-900NM	90.0	175	50	444	1.10	1.21	33.0	45.0	1212VS-90NME
EFAC1212-117NM	117	165	50	399	1.30	1.43	32.0	44.0	1212VS-111ME
EFAC2014-330NM	33.0	230	100	620	0.63	0.74	32.5	43.0	2014VS-33NME
EFAC2014-660NM	66.0	200	100	413	0.90	1.00	31.5	42.5	2014VS-66NME
EFAC2014-117NM	108	210	100	320	1.20	1.34	31.0	42.5	2014VS-111ME
EFAC2014-157NM	155	205	100	296	1.44	1.60	29.4	39.7	2014VS-151ME
EFAC2014-207NM	202	200	100	262	1.70	1.82	26.3	35.8	2014VS-201ME
EFAC2014-257NM	257	200	100	230	1.94	2.15	24.9	34.5	2014VS-251ME

1. Inductance measured at 1.0 MHz, 0.1 Vrms, 0 A using an Agilent/HP HP4291A impedance analyzer with an Agilent/HP 16193A test fixture or equivalents.

2.Q measured at the specified frequency using an Agilent/HP 4291A impedance analyzer or equivalent.

3.SRF measured using an Agilent/HP 8753 network analyzer , or equivalent and a Eastever STF0018 test fixture.

4.Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.