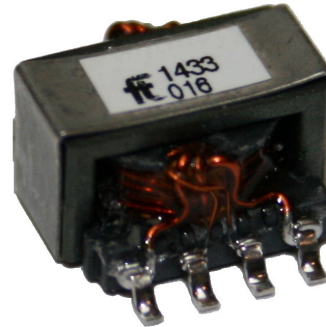


# SMT ER 9.5 Inductor

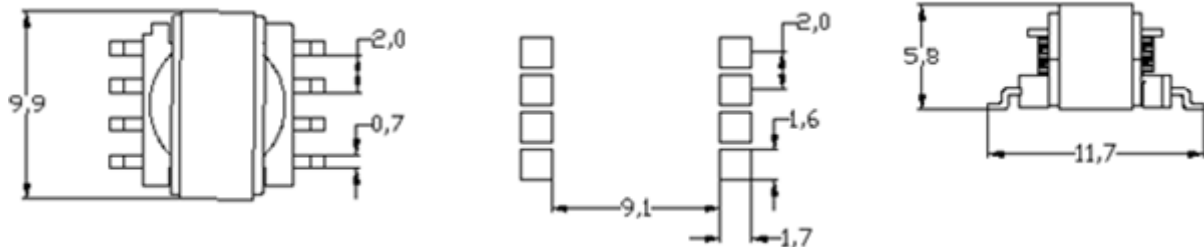
## Series 1270

### Features

- **Space qualified component**
- **Quality levels**
  - **X: Proto types**
  - **E: Engineering models**
  - **B: Flight models**
- **Small footprint**
- **Low weight**
- **Surface Mounted**
- **High Efficiency**
- **±7% inductance at room temperature**
- **±10% inductance from -55 to +125°C**
- **Competitive pricing**



Config	Pin A	Pin B
A	1,2,7,8	3,4,5,6
B	1,2	3,4
C	1	3



Recommended footprint by  
bobbin manufacturer

### Description

The 1270 Series are a compact line of space qualified inductors. Flux space products are designed, manufactured and tested in accordance with MIL, ESCC and ECSS standards as applicable. Flux designs are made in accordance with our Qualified Generic Specification, Process Identification Document and Declared Materials List. Operators are certified by our in-house ESA Certified ECSS Trainer. Lot Acceptance Testing and Qualification are optional extra services. All shipments of products include test results and certificate.

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# Specifications for 1270 Series

Measured at 25° C

## General

Inductance	±7% at room temperature
	±10% from -55 to 125° C
Current	Wire max rms current according to ECSS-Q-ST-30-11C
Qualification	Space, in Progress

Core material	3F3
Weight	3 g
Derate	Recommended to derate current to 50%
Quality levels	X: Proto types
	E: Engineering models
	B: Flight models

Part Number	Config	L [µH]	Current [A <sub>RMS</sub> ]	Derate [A <sub>RMS</sub> ]	Current at 200mT [A]	DC Resistance at 20° C [mOhm]	Thermal resistance, R <sub>th</sub> * [°K/W]
12700009	A	0,9	6,57	3,29	5,67	4,3	93
12700016	A	1,6	5,93	2,96	4,25	6,9	118
12700025	A	2,5	5,00	2,50	3,40	10,3	148
12700036	A	3,6	5,00	2,50	2,83	12,1	144
12700049	A	4,9	4,24	2,12	2,43	17,0	172
12700064	A	6,4	3,58	1,79	2,13	23,7	206
12700081	B	8,1	2,96	1,48	1,89	28,6	191
12700100	B	10	2,96	1,48	1,70	31,6	184
12700121	B	12,1	2,96	1,48	1,55	34,6	176
12700144	B	14,4	2,50	1,25	1,42	46,1	214
12700169	B	16,9	2,50	1,25	1,31	49,8	205
12700196	B	19,6	2,12	1,06	1,21	65,1	249
12700225	B	22,5	2,12	1,06	1,13	69,6	239
12700256	B	25,6	1,79	0,89	1,06	91,1	294
12700289	B	28,9	1,79	0,89	1,00	104,7	228
12700324	B	32,4	1,79	0,89	0,94	110,6	225
12700400	B	40,0	1,79	0,89	0,85	122,5	218
12700484	C	48,4	1,48	0,74	0,77	134,4	248
12700576	C	57,6	1,48	0,74	0,71	146,3	237
12700676	C	67,6	1,25	0,63	0,65	194,2	290
12700841	C	84,1	1,25	0,63	0,59	227,0	241
12701020	C	102	1,06	0,53	0,53	290	330
12701230	C	123	0,89	0,45	0,49	406	359
12701520	C	152	0,89	0,45	0,44	452	348
12701850	C	185	0,76	0,38	0,40	602	419
12702210	C	221	0,76	0,38	0,36	682	440
12702700	C	270	0,76	0,38	0,33	754	427
12703360	C	336	0,58	0,29	0,29	1167	601
12703970	C	397	0,58	0,29	0,27	1267	588
12704760	C	476	0,58	0,29	0,25	1430	533
12705630	C	563	0,58	0,29	0,23	1554	524
12706890	C	689	0,44	0,22	0,20	2391	746
12708280	C	828	0,44	0,22	0,19	2620	734
12709999	C	1000	0,44	0,22	0,17	2955	756

\* Thermal resistance from powerloss in wire to pin

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