

Non-Magnetic Air Core and Variable Inductors

These air core and variable inductors are ideal for applications where low-profile circuit boards & high Q values are essential. The coils and PTFE cores are made to precision to guarantee a constant winding pitch and consistent relationship to the printed circuit board.

Tuning is done by means of threaded PTFE and Non-Magnetic Copper Alloy core. And most importantly, **Knowles can provide custom variable or fixed inductors for any applications upon request.** All fixed and variable inductors are RoHS compliant. Tape and reel packaging and pick-and-place option available upon request as well.

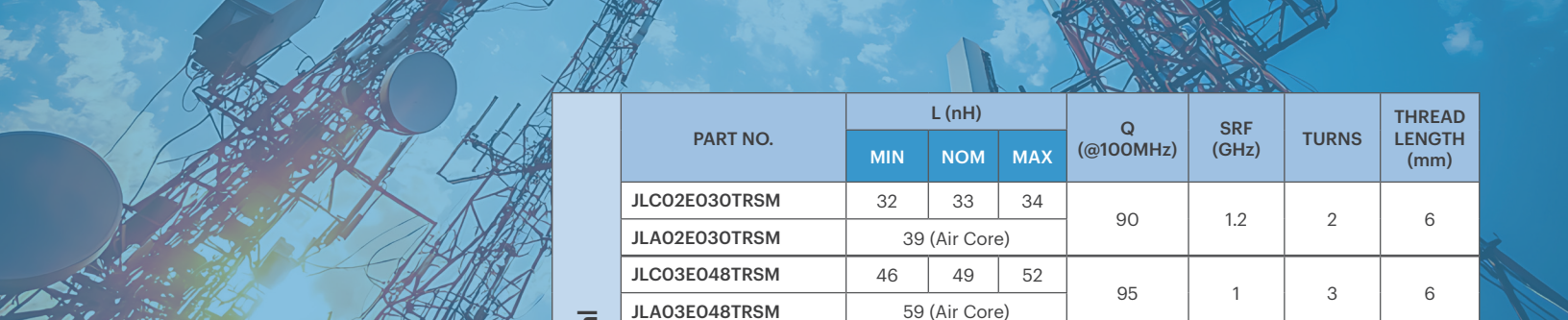


CHARACTERISTICS

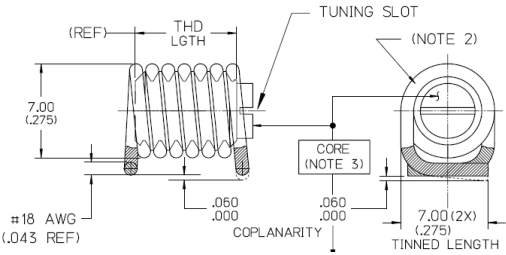
- Precision machined design. US Patent No. 8,248,198
- 7mm high in SMD, Vertical SMD and thru-hole versions
- Nominal values of 32 to 345nH, 2 to 19 turns
- Q as high as 121 @ 100MHz, SRF 0.7 to 1.2GHz
- Superb shock, vibration and thermal tolerances
- -40°C to +85°C
- Customized version requests welcomed

APPLICATIONS

- Magnetic Resonance Imaging (MRI)
- Nuclear Magnetic Resonance (NMR)
- Wireless Power Transfer
- Antennas
- RF Filtering Circuits



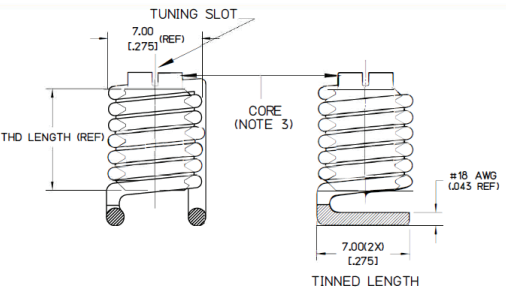
SURFACE MOUNT - HORIZONTAL



Note 2: Coil Material: Copper Alloy
Note 3: Core Material: PTFE/Copper Alloy

Surface Mount -Horizontal	PART NO.	L (nH)			Q (@100MHz)	SRF (GHz)	TURNS	THREAD LENGTH (mm)
		MIN	NOM	MAX				
	JLC02E030TRSM	32	33	34	90	1.2	2	6
	JLA02E030TRSM	39 (Air Core)						
	JLC03E048TRSM	46	49	52	95	1	3	6
	JLA03E048TRSM	59 (Air Core)						
	JLC04E065TRSM	60	64	68	101	0.9	4	6
	JLA04E065TRSM	78 (Air Core)						
	JLC05E088TRSM	74	81	87	114	0.9	5	8
	JLA05E088TRSM	99 (Air Core)						
	JLC06E110TRSM	94	107	119	119	0.7	6	8
	JLA06E110TRSM	123 (Air Core)						
	JLC07E130TRSM	104	118	133	121	0.7	7	10
	JLA07E130TRSM	142 (Air Core)						
	JLC09E160TRSM	122	139	170	162	0.58	9	13
	JLA09E160TRSM	191 (Air Core)						
	JLC13E250TRSM	185	219	270	199	0.43	13	18
	JLA13E250TRSM	294 (Air Core)						
	JLC19E375TRSM	281	345	436	171	0.31	19	25
	JLA19E375TRSM	457 (Air Core)						

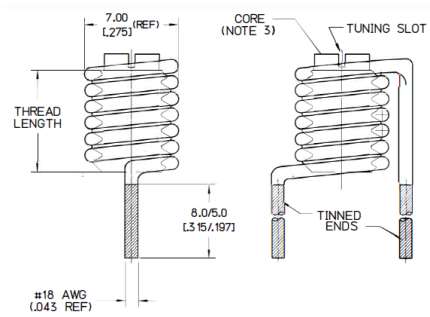
SURFACE MOUNT - VERTICAL



Note 3: Core Material: PTFE/Copper Alloy

Surface Mount -Vertical	PART NO.	L (nH)			Q (@100MHz)	SRF (GHz)	TURNS	THREAD LENGTH (mm)
		MIN	NOM	MAX				
	JLC02E030TRVSM	32	33	34	90	1.2	2	6
	JLA02E030TRVSM	39 (Air Core)						
	JLC03E048TRVSM	46	49	52	95	1	3	6
	JLA03E048TRVSM	59 (Air Core)						
	JLC04E065TRVSM	60	64	68	101	0.9	4	6
	JLA04E065TRVSM	78 (Air Core)						
	JLC05E088TRVSM	74	81	87	114	0.9	5	8
	JLA05E088TRVSM	99 (Air Core)						
	JLC06E110TRVSM	94	107	119	119	0.7	6	8
	JLA06E110TRVSM	123 (Air Core)						
	JLC07E130TRVSM	104	118	133	121	0.7	7	10
	JLA07E130TRVSM	142 (Air Core)						

THRU HOLE MOUNT - VERTICAL



Note 3: Core Material: PTFE/Copper Alloy

Thru Hole Mount -Vertical	PART NO.	L (nH)			Q (@100MHz)	SRF (GHz)	TURNS	THREAD LENGTH (mm)
		MIN	NOM	MAX				
	JLC02E030TRVPC	32	33	34	90	1.2	2	6
	JLA02E030TRVPC	39 (Air Core)						
	JLC03E048TRSM	46	49	52	95	1	3	6
	JLA03E048TRSM	59 (Air Core)						
	JLC04E065TRSM	60	64	68	101	0.9	4	6
	JLA04E065TRSM	78 (Air Core)						
	JLC05E088TRSM	74	81	87	114	0.9	5	8
	JLA05E088TRSM	99 (Air Core)						
	JLC06E110TRSM	94	107	119	119	0.7	6	8
	JLA06E110TRSM	123 (Air Core)						
	JLC07E130TRSM	104	118	133	121	0.7	7	10
	JLA07E130TRSM	142 (Air Core)						