

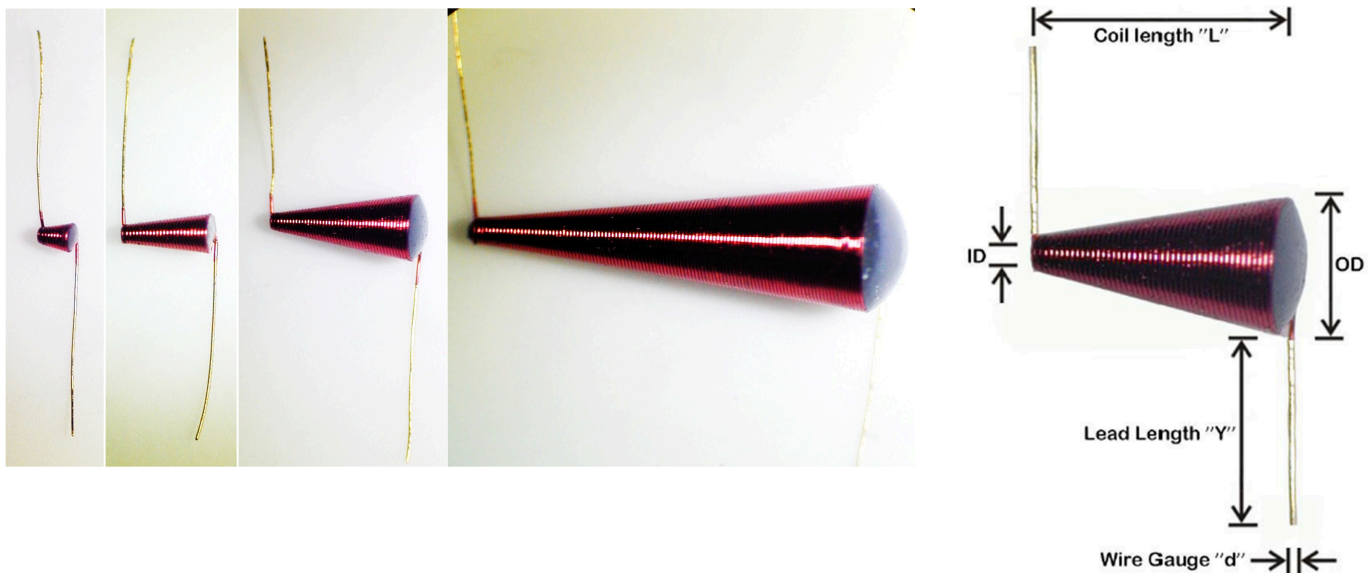
# Miniature Conical Inductor

Feature	Applications
<ul style="list-style-type: none"> <li>Operating Frequency:500KHz~40GHz.</li> <li>Low Insertion Loss, Excellent Return Loss.</li> <li>Replace multiples of inductors in series.</li> <li>RoHS compliant.</li> </ul>	<ul style="list-style-type: none"> <li>Broadband and high frequency</li> <li>Bias Tee Circuits</li> <li>Optical fiber transmitter/Receiver Circuits</li> </ul>

### Selection guide

Part Number	Turns N	Wire Gauge d (mm)	Internal Diameter ID (mm)	Internal Outer Diameter OD (mm) Max	Coil Length L (mm) Max	Frequency Typ	Inductance $\mu$ H	DCR Ohm Typ	Idc mA
AE-SAC010T001-C	10	0.035	0.2	0.58	0.64	40MHz~40GHz	0.07	0.39	340
AE-SAC019T001-C	19	0.079	0.2	1.02	2.03	10MHz~30GHz	0.22	0.18	700
AE-SAC021T001-C	21	0.127	0.46	1.78	3.43	40MHz~36GHz	0.425	0.14	1000
AE-SAC025T001-C	25	0.035	0.2	0.64	1.27	40MHz~40GHz	0.25	0.80	230
AE-SAC045T001-C	45	0.035	0.2	0.89	2.16	40MHz~40GHz	0.84	1.60	160
AE-SAC045T002-C	45	0.051	0.2	1.14	2.91	40MHz~36GHz	1.08	0.95	250
AE-SAC050T001-C	50	0.051	0.46	1.52	3.43	10MHz~20GHz	2.35	1.60	220
AE-SAC050T002-C	50	0.079	0.2	1.91	5.08	10MHz~25GHz	1.65	0.625	400
AE-SAC050T003-C	50	0.127	0.46	3.05	8.00	10MHz~18GHz	2.75	0.67	700
AE-SAC075T001-C	75	0.100	0.46	3.56	9.78	10MHz~13GHz	6.35	1.08	440
AE-SAC075T002-C	75	0.127	0.46	4.06	1.21	10MHz~13GHz	6.93	0.85	650
AE-SAC082T001-C	82	0.051	0.46	1.91	5.21	10MHz~15GHz	6.70	2.83	180
AE-SAC110T001-C	110	0.035	0.2	1.78	5.08	10MHz~40GHz	8.00	6.55	100

### Configuration Schematics:



Coil winding direction: CCW

ID Tolerance +/- 0.05 mm

Tinned or Ag plated Lead Length "Y": 2.5mm Max. 1/4 T

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