



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



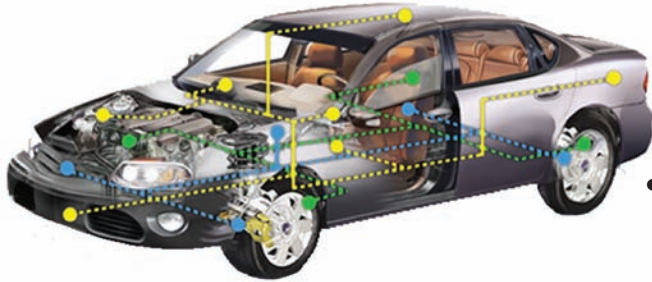
## Contact us

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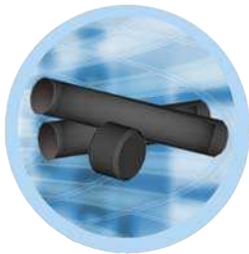
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- **Control Area Networks (CAN)**– two wire control data bus; engine control modules; electric drivetrain; chassis; drive-by-wire
- **Safety Systems** – air bags; passenger occupancy detection; anti-lock brakes; remote tire pressure sensing; safety control module; drowsiness monitors
- **Security Systems** – telematic navigation; remote and passive keyless entry
- **DC motors** – cooling fan; windshield wipers; power seats, windows, mirrors, sun roof, antenna, etc.
- **Miscellaneous** – active suspension; power supplies; instrumentation; entertainment systems; speed sensors; moisture sensing wipers



## Laird Technologies' Rods

Laird Technologies offers an extensive range of rod sizes in three standard ferrite materials.

### Features:

Standard sizes and materials to cover the gamut of automotive requirements. Custom sizes can be tooled quickly. Custom features such as slotted or notched ends can be produced. Standard materials available for ferrite rods include Laird Technologies' 55 and 28 (250 and 850 perm).

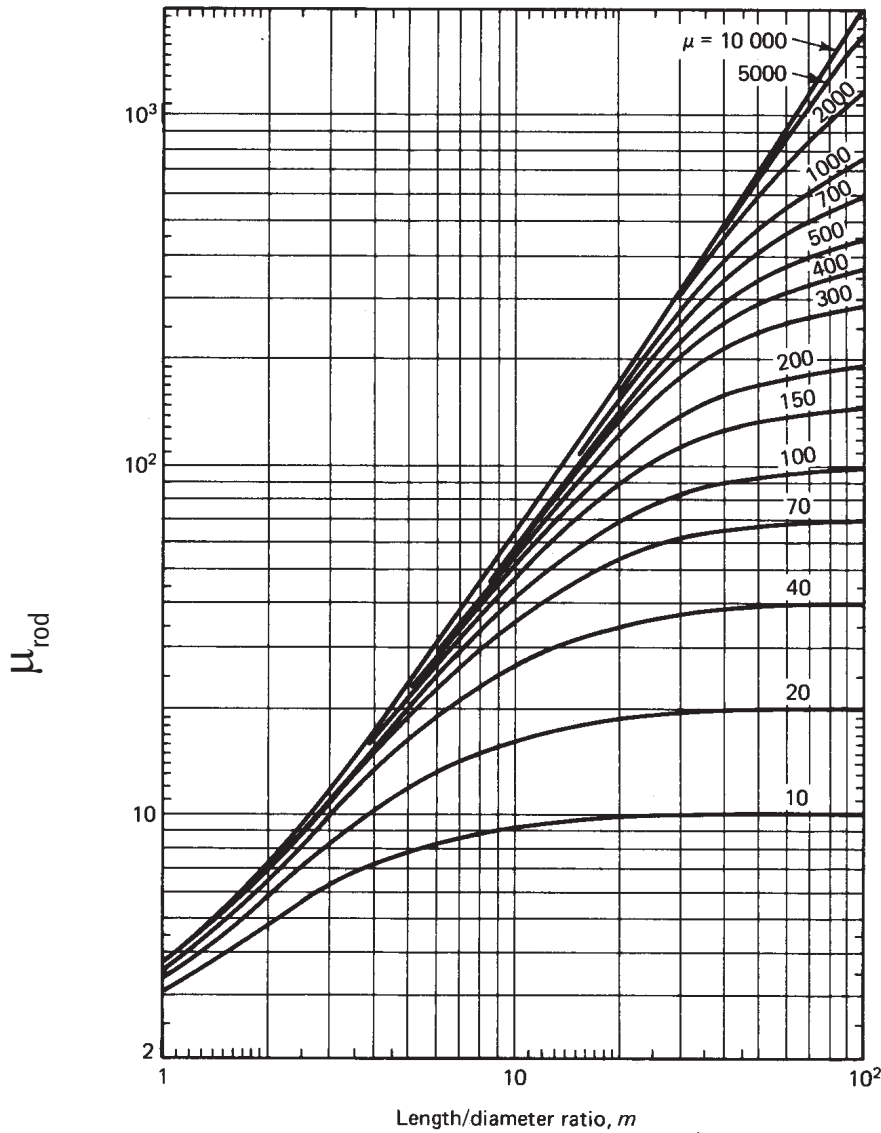
### Applications:

EMI suppression for spark ignition coils and DC motors. RFID coils for passive keyless entry. Transmitter/receiver antenna for remote.

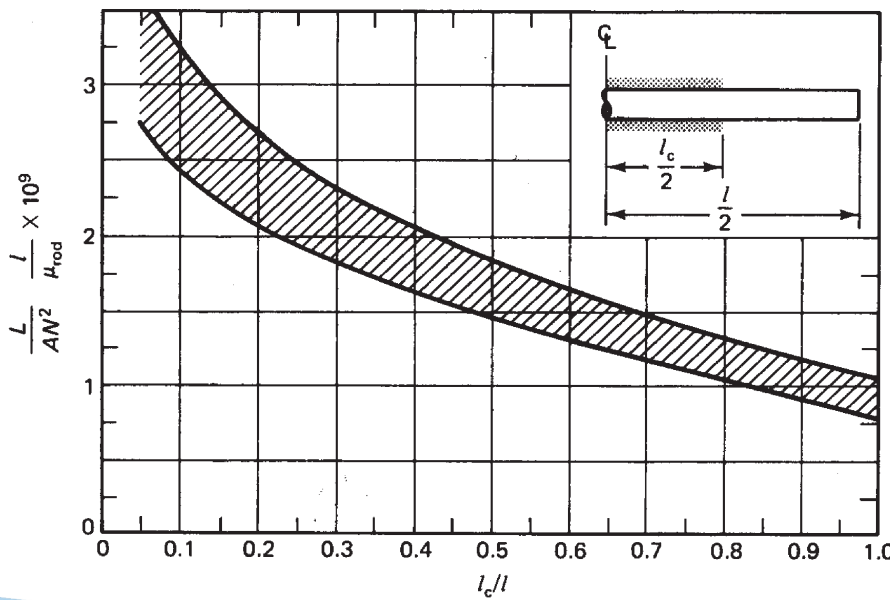
Part Number	Part OD mm (inches)	Length Range mm (inches)
__M0079-X00	2.00 (0.079)	12.00 (0.472)
__M0087-X00	2.40 (0.094)	8.0 - 20.0 (0.315 - 0.787)
__M0099-X00	2.50 (0.099)	8.0 - 16.0 (0.315 - 0.630)
__M0110-X00	2.80 (0.110)	8.0 - 20.0 (0.315 - 0.787)
__M0118-X00	3.00 (0.118)	8.0 - 20.0 (0.315 - 0.787)
__M0150-X00	3.30 (0.150)	8.0 - 20.0 (0.315 - 0.787)
__M0130-X00	3.85 (0.152)	8.0 - 30.0 (0.315 - 1.181)
__M0158-X00	4.00 (0.158)	10.0 - 25.0 (0.394 - 0.984)

Part Number	Part OD mm (inches)	Length Range mm (inches)
__M0185-X00	4.70 (0.185)	10.0 - 20.0 (0.394 - 0.787)
__M0197-X00	5.00 (0.197)	7.0 - 30.0 (0.275 - 1.181)
__M0209-X00	5.30 (0.209)	7.0 - 20.0 (0.275 - 0.787)
__M0236-X00	6.00 (0.236)	15.0 - 30.0 (0.591 - 1.181)
__M0250-X00	6.35 (0.250)	15.0 - 35.0 (0.591 - 1.378)
__M0256-X00	6.50 (0.256)	15.0 - 30.0 (0.591 - 1.181)
__M0315-X00	8.00 (0.315)	15.0 - 35.0 (0.591 - 1.378)
__M0394-XX0	10.00 (0.394)	15.0 - 40.0 (0.591 - 1.575)

Partial list of standard rod sizes.



$\mu_{rod}$  as a function of  $m$  with material permeability as a parameter



$L/AN^2 \mu_{rod}$  as a function of  $l_c/l$ . The results for a wide variety of ferrite rods are contained within the shaded area (dimensions in mm, L in H)