

# Rod Ferrite Cores (R Series)

## Description :

Rod Ferrite Core (R series) is a cylindrical ferrite core, can be easily assembly with a spring coil or wind wire directly. It's widely used for radio antenna, LF/HF RFID antenna, choke coil, inductor, DC power filter, DC signal filter and transformer. Due to the open magnetic structure, the core can accept large DC bias before saturate.



Part Number		R OD x HT (mm)	
R 0.5 x 1.4	R 2 x 10	R 4 x 16	R 6 x 25
R 0.76 x 4.82	R 2 x 20	R 4 x 18	R 6 x 30
R 0.9 x 2	R 2.3 x 10.5	R 4 x 20	R 6.35 x 26
R 0.9 x 7.6	R 2.3 x 15.5	R 4 x 25	R 6.35 x 32.5
R 1 x 6.5	R 2.3 x 20	R 4.5 x 10	R 6.35 x 38
R 1 x 10	R 3 x 2.4	R 4.5 x 20	R 7 x 15
R 1.1 x 7.6	R 3 x 6.1	R 5 x 13.5	R 7 x 30
R 1.5 x 12	R 3 x 8	R 5 x 15	R 8 x 10
R 1.5 x 15	R 3 x 10	R 5 x 15.7	R 8 x 15
R 1.55 x 14	R 3 x 12	R 5 x 17	R 8 x 20
R 1.6 x 14	R 3 x 12.4	R 5 x 18	R 8 x 25
R 1.6 x 15	R 3 x 15	R 5 x 20	R 8 x 30
R 1.65 x 4.5	R 3 x 14	R 5 x 21	R 9 x 9
R 1.7 x 7.5	R 3 x 19	R 5 x 22	R 10 x 15
R 1.7 x 8	R 3 x 20	R 5 x 25	R 10 x 20
R 1.7 x 9	R 3 x 22	R 5 x 30	R 10 x 21
R 1.7 x 15	R 3 x 25	R 6 x 8	R 10 x 25
R 1.72 x 12	R 3 x 30	R 6 x 15	R 10 x 33
R 1.8 x 18	R 4 x 12	R 6 x 18	
R 1.9 x 6	R 4 x 15	R 6 x 20	

Note : We're welcome your inquiry if your dimension is not listed.

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For RFID application :

This series is designed for LF(125KHz/134.2KHz) and HF(13.56MHz) RFID (Radio Frequency Identification) tags/transponders like glass tag for animal tracking, keyfob for access control and pigeon ring for bird identification. The rod ferrite core is winding to be an antenna inside the tag. Due to the rod ferrite core concentrate the magnetic flux in one direction with reader, the read range can be longer and antenna size can be smaller than air coil. After grind to get small tolerance core diameter, the antenna inductance can be controlled in small tolerance to get stable performance tags.

Part Number					
OD x HT (mm)	OD tolerance	HT tolerance	OD x HT (mm)	OD tolerance	HT tolerance
R 1.0 x 6 - G	1.0 + 0.02	6.0 +- 0.2	R 3.0 x 25 - G	3.0 + 0.05	25.0 +- 0.6
R 1.0 x 8 - G	1.0 + 0.02	8.0 +- 0.3	R 4.0 x 15 - G	4.0 + 0.05	15.0 +- 0.4
R 1.6 x 4.7 - G	1.6 + 0.02	4.7 +- 0.2	R 4.0 x 20 - G	4.0 + 0.05	20.0 +- 0.5
R 1.6 x 7.5 - G	1.6 + 0.02	7.5 +- 0.3	R 4.0 x 25 - G	4.0 + 0.05	25.0 +- 0.6
R 1.6 x 9 - G	1.6 + 0.02	9.0 +- 0.3	R 5.0 x 20 - G	5.0 + 0.05	20.0 +- 0.5
R 2.0 x 10 - G	2.0 + 0.02	10.0 +- 0.3	R 5.0 x 25 - G	5.0 + 0.05	25.0 +- 0.6
R 2.0 x 15 - G	2.0 + 0.03	15.0 +- 0.4	R 5.0 x 30 - G	5.0 + 0.05	30.0 +- 0.6
R 2.0 x 20 - G	2.0 + 0.03	20.0 +- 0.5	R 6.0 x 20 - G	6.0 + 0.05	20.0 +- 0.5
R 3.0 x 15 - G	3.0 + 0.03	15.0 +- 0.4	R 6.0 x 25 - G	6.0 + 0.05	25.0 +- 0.6
R 3.0 x 20 - G	3.0 + 0.03	20.0 +- 0.5	R 6.0 x 30 - G	6.0 + 0.05	30.0 +- 0.6

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