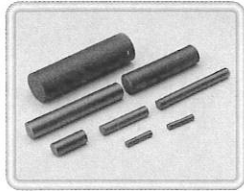


# Rod Core / Antenna Cores

\*The other specification can be designed & produced also.



## ● Ordering Code

$\frac{R}{(1)}$   $\frac{3}{(2)}$   $\frac{20}{(3)}$

(1) Type Code  
(2)  $\varnothing A$  Size  
(3) D Size

**Features:** Generally, Ferrite Rods are used as the core of solenoidal Coils for two main functions: Tuning: moving the core adjusts the coil to the required inductance value (L). Advantages of the open circuit are high Q and a good temperature stability. EMI suppression: the coil can carry a high DC current without being saturated because of the open magnetic circuit. In most cases, the frequency range will not be limited by the material, but by the coil capacitance. Curvature and mechanical tolerances of the standard range fulfill the requirements international standard. The L value and Q-factor are measured (up to 6 mm outer diameter) in a standard coil. For solenoidal coils, open circuit, No self shielding and not easy to saturate with DC.

**Applications:** Tubes can be used in solenoid coils with almost the same effect as Rods. The inner hole is often used to insert wires to make a ferrite coil former. In EMI suppression applications tubes can also be shifted over wires. Because the magnetic flux path is then closed, a steep increase in impedance results. In such cases however the sensitivity for DC is rather high. Curvature and mechanical tolerances of the standard range fulfill the requirements of DIN 41291.

## ● Shapes

Fig. 1

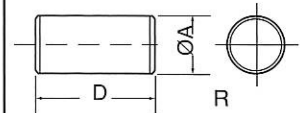


Fig. 2

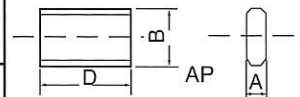
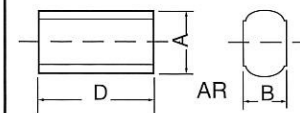


Fig. 3



## ● Dimensions (Rod Cores)

Unit: mm

NO	ITEM	$\varnothing A$	D	Fig
1	R 0.76x4.83	0.76±0.05	4.82±0.25	1
2	R 1.65x8	1.65 <sup>+0</sup> <sub>-0.05</sub>	8±0.3	1
3	R 1.65x14	1.65 <sup>+0</sup> <sub>-0.05</sub>	14±0.6	1
4	R 1.7x6	1.7±0.1	6±0.3	1
5	R 1.75x18.5	1.75±0.1	18.5±0.6	1
6	R 1.9x10	1.9±0.1	10±0.3	1
7	R 2x14	2±0.1	14±0.5	1
8	R 2.3x20	2.3±0.1	20±0.6	1
9	R 2.5x20	2.5±0.1	20±0.6	1
10	R 2.8x11	2.8±0.1	11±0.3	1
11	R 3x10	3±0.1	10±0.3	1
12	R 3x20	3±0.1	20±0.6	1
13	R 3x36.5	3±0.1	36.5±1	1
14	R 3.3x20	3.3±0.1	20±0.6	1
15	R 3.5x25	3.5±0.15	25±0.8	1
16	R 4x10	4±0.15	10±0.3	1
17	R 4x20	4±0.1	20±0.5	1
18	R 4x30	4±0.15	30±0.8	1

Unit: mm

NO	ITEM	$\varnothing A$	D	Fig
19	R 4.1x25	4.1±0.2	25±0.6	1
20	R 5x12.5	5±0.2	12.5±0.4	1
21	R 5x20	5±0.2	20±0.5	1
22	R 5x30	5±0.2	30±1	1
23	R 5.5x21	5.5±0.2	21±0.5	1
24	R 5.85x30	5.85±0.3	30±1	1
25	R 6x10	6.0±0.2	10±0.3	1
26	R 6x20	6.0±0.2	20±0.5	1
27	R 6x38	6.0±0.2	38±1	1
28	R 6.2x22.5	6.2±0.2	22.5±0.5	1
29	R 6.2x37.5	6.2±0.2	37.5±1	1
30	R 7.3x30	7.3±0.1	30±1	1
31	R 8x20	8±0.2	20±0.4	1
32	R 8x30	8±0.2	30±1	1
33	R 10x20	10±0.3	20±0.5	1
34	R 10x30	10±0.3	30±1	1
35	R 10x35	10±0.3	35±1	1
36	R 12x30	12±0.3	30±1	1

## ● Dimensions (Antenna Cores)

Unit: mm

NO	ITEM	A	B	D	Fig
1	AR 10x50	10±0.3	9±0.3	50 <sup>+0</sup> <sub>-1.5</sub>	2
2	AP 3x12x20	3±0.2	12±0.3	30±1.0	3