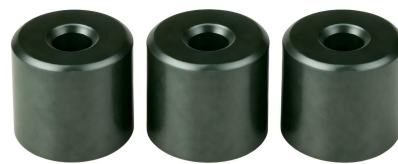


Features

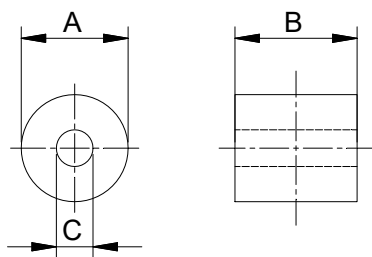
- * Ferrite cores made of materials optimized for high-frequency attenuation.
- * Available in a range of permeability values ($\mu_i = 380$ to 1500) to ensure targeted suppression across critical frequency bands.
- * Wide operating temperature range: $-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$, ensuring stable performance in demanding environments.



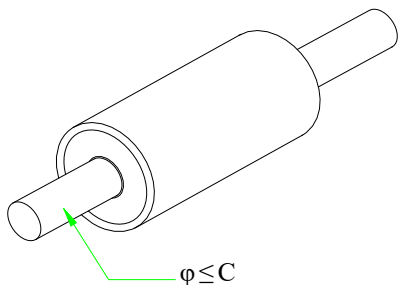
Applications

- * Wires
- * Coaxial cables
- * Wire-wrapping cables
- * Multiconductor wires
- * Cable e.g. of power supplies, data and gage signal lines

Appearance and Dimensions



Applicable cable diameter: [mm]



Product Identification

D7 RH 3.5X4.0X1.2

- ① ② ③
- ① Material Code
- ② Product Symbol
- ③ Dimensions

Electrical Characteristics

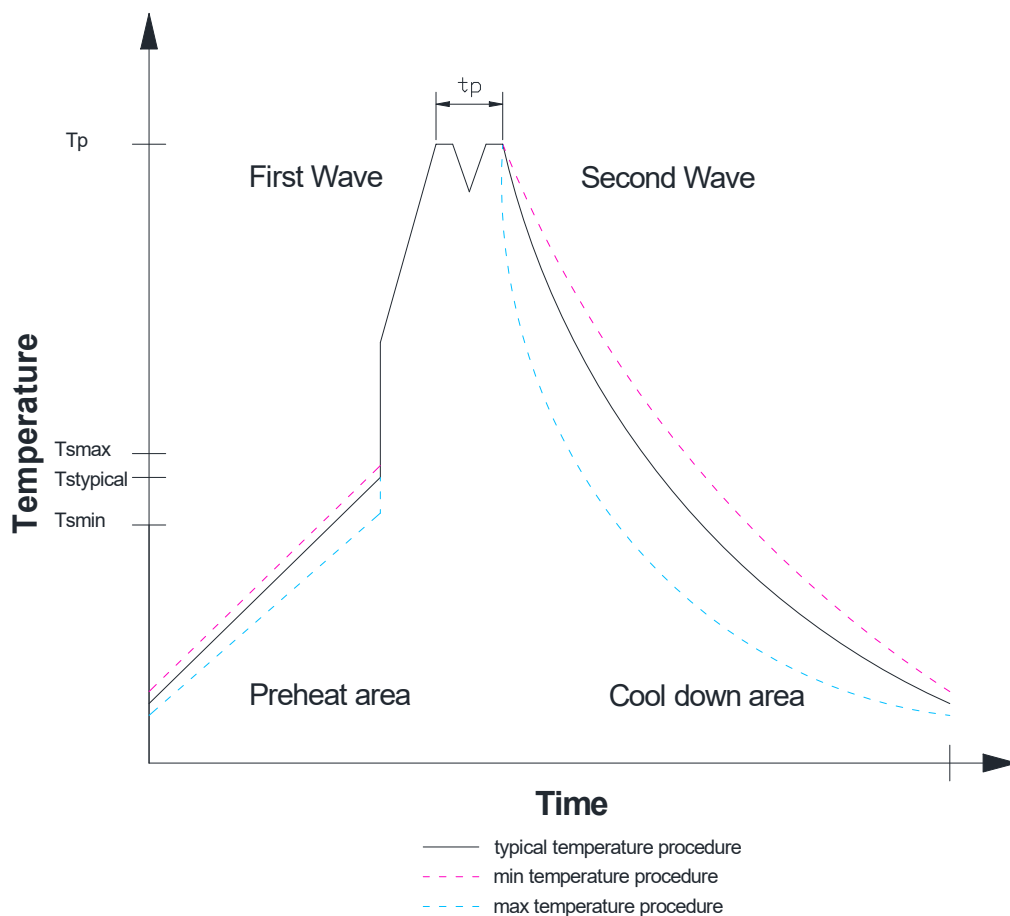
Dimensions(mm)				Typical Impedance(Ω)	
Series	A	B	C	25MHz	100MHz
D7RH3.5X8.0X1.0	3.50 $\pm$ 0.15	8.00 $\pm$ 0.30	1.00 $\pm$ 0.15	78.0	111
D7RH3.5X4.0X1.2	3.50 $\pm$ 0.15	4.00 $\pm$ 0.30	1.20 $\pm$ 0.15	34.0	72.0
D7RH3.5X5.0X1.2	3.50 $\pm$ 0.15	5.00 $\pm$ 0.30	1.20 $\pm$ 0.15	37.0	55.0
D7RH3.5X6.0X1.2	3.50 $\pm$ 0.15	6.00 $\pm$ 0.30	1.20 $\pm$ 0.15	45.0	73.0
D7RH3.5X7.0X1.2	3.50 $\pm$ 0.15	7.00 $\pm$ 0.30	1.20 $\pm$ 0.15	54.0	84.0
D7RH3.5X5.0X1.3	3.50 $\pm$ 0.15	5.00 $\pm$ 0.30	1.30 $\pm$ 0.15	37.0	61.0
D7RH3.5X6.0X1.3	3.50 $\pm$ 0.15	6.00 $\pm$ 0.30	1.30 $\pm$ 0.15	42.0	72.0
D7RH3.5X9.0X1.3	3.50 $\pm$ 0.15	9.00 $\pm$ 0.30	1.30 $\pm$ 0.15	62.0	80.0
D7RH3.5X6.0X1.5	3.50 $\pm$ 0.15	6.00 $\pm$ 0.30	1.50 $\pm$ 0.15	35.0	60.0
D7RH4.0X4.0X2.0	4.00 $\pm$ 0.20	4.00 $\pm$ 0.30	2.00 $\pm$ 0.15	24.0	48.0
D7RH4.0X5.0X2.0	4.00 $\pm$ 0.20	5.00 $\pm$ 0.30	2.00 $\pm$ 0.15	28.0	51.0
D7RH4.0X7.0X2.0	4.00 $\pm$ 0.20	7.00 $\pm$ 0.30	2.00 $\pm$ 0.15	40.0	64.0
D7RH4.0X10.0X2.0	4.00 $\pm$ 0.20	10.00 $\pm$ 0.40	2.00 $\pm$ 0.15	53.0	80.0
D7RH4.5X20.0X1.5	4.50 $\pm$ 0.20	20.00 $\pm$ 0.50	1.50 $\pm$ 0.15	115	200
D7RH4.5X12.0X2.6	4.50 $\pm$ 0.20	12.00 $\pm$ 0.40	2.60 $\pm$ 0.15	49.0	72.0
D7RH5.0X5.0X2.8	5.00 $\pm$ 0.20	5.00 $\pm$ 0.30	2.80 $\pm$ 0.15	30.0	55.0
D7RH5.0X12.0X2.8	5.00 $\pm$ 0.20	12.00 $\pm$ 0.40	2.80 $\pm$ 0.15	85.0	125
D7RH5.0X18.0X2.8	5.00 $\pm$ 0.20	18.00 $\pm$ 0.40	2.80 $\pm$ 0.15	128	147
D7RH6.0X6.0X3.0	6.00 $\pm$ 0.20	6.00 $\pm$ 0.30	3.00 $\pm$ 0.20	52.0	90.0
D7RH7.8X12.7X4.0	7.80 $\pm$ 0.20	12.70 $\pm$ 0.40	4.00 $\pm$ 0.30	66.0	107
D7RH8.0X10.0X4.0	8.00 $\pm$ 0.20	10.00 $\pm$ 0.40	4.00 $\pm$ 0.30	53.0	94.0
D7RH9.0X9.0X5.0	9.00 $\pm$ 0.30	9.00 $\pm$ 0.40	5.00 $\pm$ 0.30	42.0	82.0
D7RH9.0X16.0X5.0	9.00 $\pm$ 0.30	16.00 $\pm$ 0.40	5.00 $\pm$ 0.30	65.0	100
D7RH9.0X18.0X5.0	9.00 $\pm$ 0.30	18.00 $\pm$ 0.40	5.00 $\pm$ 0.30	85.0	128
D7RH9.0X25.0X5.0	9.00 $\pm$ 0.30	25.00 $\pm$ 0.40	5.00 $\pm$ 0.30	115	185
D7RH9.0X18.5X5.6	9.00 $\pm$ 0.30	18.50 $\pm$ 0.40	5.60 $\pm$ 0.30	60.0	100
D7RH9.5X10.4X5.0	9.50 $\pm$ 0.30	10.40 $\pm$ 0.40	5.00 $\pm$ 0.25	53.0	98.0
D7RH9.5X14.5X5.0	9.50 $\pm$ 0.30	14.50 $\pm$ 0.40	5.00 $\pm$ 0.25	75.0	121
D7RH9.5X16.0X5.0	9.50 $\pm$ 0.30	16.00 $\pm$ 0.40	5.00 $\pm$ 0.25	74.0	103
D7RH9.5X19.0X5.0	9.50 $\pm$ 0.30	19.00 $\pm$ 0.40	5.00 $\pm$ 0.25	95.0	135
D7RH9.5X19.5X5.0	9.50 $\pm$ 0.30	19.50 $\pm$ 0.40	5.00 $\pm$ 0.25	98.0	143
D7RH9.5X9.5X5.2	9.50 $\pm$ 0.30	9.50 $\pm$ 0.30	5.20 $\pm$ 0.25	45.0	85.0
D7RH9.5X10.0X5.2	9.50 $\pm$ 0.30	10.00 $\pm$ 0.40	5.20 $\pm$ 0.25	50.0	92.0
D7RH10.0X10.0X5.0	10.00 $\pm$ 0.30	10.00 $\pm$ 0.40	5.00 $\pm$ 0.25	54.0	85.0
D7RH10.0X10.0X6.0	10.00 $\pm$ 0.30	10.00 $\pm$ 0.40	6.00 $\pm$ 0.30	42.0	77.0
D7RH10.0X14.0X6.0	10.00 $\pm$ 0.30	14.00 $\pm$ 0.40	6.00 $\pm$ 0.30	50.0	86.0

D7RH10.0X10.0X7.0	10.00±0.30	10.00±0.40	7.00±0.30	30.0	69.0
D7RH10.5X15.0X5.5	10.50±0.30	15.00±0.50	5.50±0.25	70.0	100
D7RH10.5X20.0X5.5	10.50±0.30	20.00±0.50	5.50±0.25	95.0	142
D7RH11.5X18.5X5.0	11.50±0.30	18.50±0.40	5.00±0.25	113	178
D7RH11.5X25.0X5.0	11.50±0.30	25.00±0.60	5.00±0.25	145	230
D7RH11.5X20.0X5.0	11.50±0.30	20.00±0.50	5.00±0.20	125	210
D7RH12.0X23.0X4.0	12.00±0.30	23.00±0.50	4.00±0.20	180	260
D7RH12.0X15.0X5.6	12.00±0.30	15.00±0.50	5.60±0.25	85.0	145
D7RH12.0X20.0X5.6	12.00±0.30	20.00±0.50	5.60±0.25	119	175
D7RH12.0X25.0X5.6	12.00±0.30	25.00±0.50	5.60±0.25	142	257
D7RH12.0X15.0X6.5	12.00±0.30	15.00±0.50	6.50±0.25	71.0	128
D7RH12.0X20.0X6.5	12.00±0.30	20.00±0.50	6.50±0.25	87.0	145
D7RH12.0X15.0X7.2	12.00±0.30	15.00±0.40	7.20±0.30	60.0	98.0
D7RH12.0X24.5X7.2	12.00±0.30	24.50±0.40	7.20±0.30	95.0	165
D7RH12.5X12.5X8.0	12.50±0.30	12.50±0.40	8.00±0.30	42.0	72.0
D7RH12.7X12.7X7.9	12.70±0.30	12.70±0.40	7.90±0.30	46.0	86.0
D7RH12.7X15.0X7.9	12.70±0.30	15.00±0.40	7.90±0.30	52.0	96.0
D7RH14.0X15.0X9.0	14.00±0.40	15.00±0.40	9.00±0.30	57.0	93.0
D7RH14.2X28.5X4.7	14.20±0.40	28.50±0.60	4.70±0.30	200	320
D7RH14.2X15.0X6.35	14.20±0.40	15.00±0.40	6.35±0.30	92.0	146
D7RH14.2X28.5X6.35	14.20±0.40	28.50±0.60	6.35±0.30	164	255
D7RH14.2X15.0X7.0	14.20±0.40	15.00±0.40	7.00±0.30	78.0	142
D7RH14.2X23.5X7.2	14.20±0.40	23.50±0.50	7.20±0.30	115	180
D7RH14.2X28.5X7.2	14.20±0.40	28.50±0.60	7.20±0.30	143	243
D7RH14.2X15.0X8.0	14.20±0.40	15.00±0.40	8.00±0.30	63.0	107
D7RH14.2X23.5X8.0	14.20±0.40	23.50±0.50	8.00±0.30	100	180
D7RH14.2X28.5X8.0	14.20±0.40	28.50±0.60	8.00±0.30	128	195
D7RH14.2X28.5X9.0	14.20±0.40	28.50±0.60	9.00±0.30	85.0	150
D7RH14.2X23.0X10.0	14.20±0.40	23.00±0.50	10.00±0.40	50.0	105
D7RH16.0X28.0X7.2	16.00±0.40	28.00±0.60	7.20±0.30	174	265
D7RH16.0X16.0X8.0	16.00±0.40	16.00±0.40	8.00±0.40	83.0	132
D7RH16.0X28.0X8.0	16.00±0.40	28.00±0.60	8.00±0.40	140	220
D7RH16.0X28.0X9.0	16.00±0.40	28.00±0.60	9.00±0.30	115	180
D7RH16.0X17.0X9.0	16.00±0.40	17.00±0.40	9.00±0.30	73.0	121
D7RH16.0X20.0X9.0	16.00±0.40	20.00±0.50	9.00±0.30	90.0	140
D7RH16.0X28.5X9.0	16.00±0.40	28.50±0.60	9.00±0.30	105	195
D7RH17.5X28.5X8.3	17.50±0.40	28.50±0.60	8.30±0.30	148	242
D7RH17.5X28.5X9.5	17.50±0.40	28.50±0.60	9.50±0.30	125	190
D7RH17.5X28.5X10.7	17.50±0.40	28.50±0.60	10.70±0.30	97.0	157
D7RH17.5X28.5X11.3	17.50±0.40	28.50±0.60	11.30±0.40	85.0	135

D7RH18.0X28.0X10.0	18.00±0.50	28.00±0.60	10.00±0.40	124	209
D7RH18.0X29.0X10.0	18.00±0.50	29.00±0.60	10.00±0.40	128	210

Recommended Soldering Conditions

Classification Wave Soldering Profile:



Profile Feature		Lead-Free Assembly
Preheat Temperature Min	T_{smin}	100 °C
Preheat Temperature Typical	$T_{s typical}$	120 °C
Preheat Temperature Max	$T_{s max}$	130 °C
Preheat Time t_s from $T_{s min}$ to $T_{s max}$	t_s	70 seconds
Ramp-up Rate	ΔT	150 °C max.
Peak Temperature	T_p	250 °C - 260 °C
Time of actual peak temperature	t_p	max. 10 seconds max. 5 seconds each wave
Ramp-down Rate, Min		~ 2 K/ second
Ramp-down Rate, Typical		~ 3.5 K/ second
Ramp-down Rate, Max		~ 5K/ second
Time 25 °C to 25 °C		4 minutes

Refer to EN61760-1:2006

苏州隆亿电子科技有限公司

SUZHOU LONGYI ELECTRONIC TECHNOLOGY CO.,LTD.

TEL: +86 512-66322495

<https://www.lyetec.com>

FAX: +86 512-68055173

E-mail: sales@lyetec.com

Products Storage

(1) Storage period

Products which inspected in LYEC over 12 months ago should be examined and used, which can be confirmed with inspection No. marked on the container. Solderability should be checked if this period is exceeded.

(2) Storage conditions

Products should be storage in the warehouse on the following conditions:

Temperature: Less than 40°C

Humidity : Less than 75% relative and humidity

No rapid change on temperature and humidity

- (3) Don't keep products in corrosive gases such as sulfur, chlorine gas or acid, or it may cause oxidization of electrode, resulting in poor solderability.
- (4) Products should be storage on the palette for the prevention of the influence from humidity, dust and so on.
- (5) Products should be storage in the warehouse without heat shock, vibration, direct sunlight and so on.
- (6) Products should be storage under the airtight packaged condition.