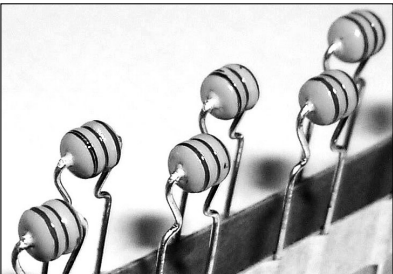


RADIAL LEADED INDUCTORS

■ OPERATING TEMP

-25 ~ +85°C (Including self-generated heat)

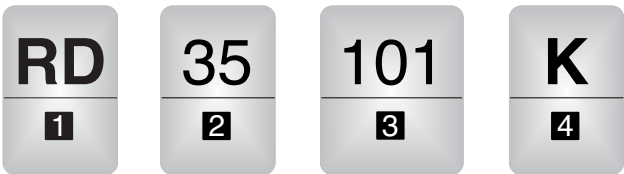


■ FEATURES

- The RD Series inductors are available in 3 from factors range from 35 to 45.
- For small current applications

■ APPLICATION

Consumer electronics such as VCR,TV and Monitor other electronic equipment.



■ MARKING



■ ORDERING CODE

1 TYPE	
RD	Radial Leaded Inductor

2 TYPE DIMENSTION	
35	6.0 × 4.0
40	8.0 × 5.0
45	9.5 × 6.0

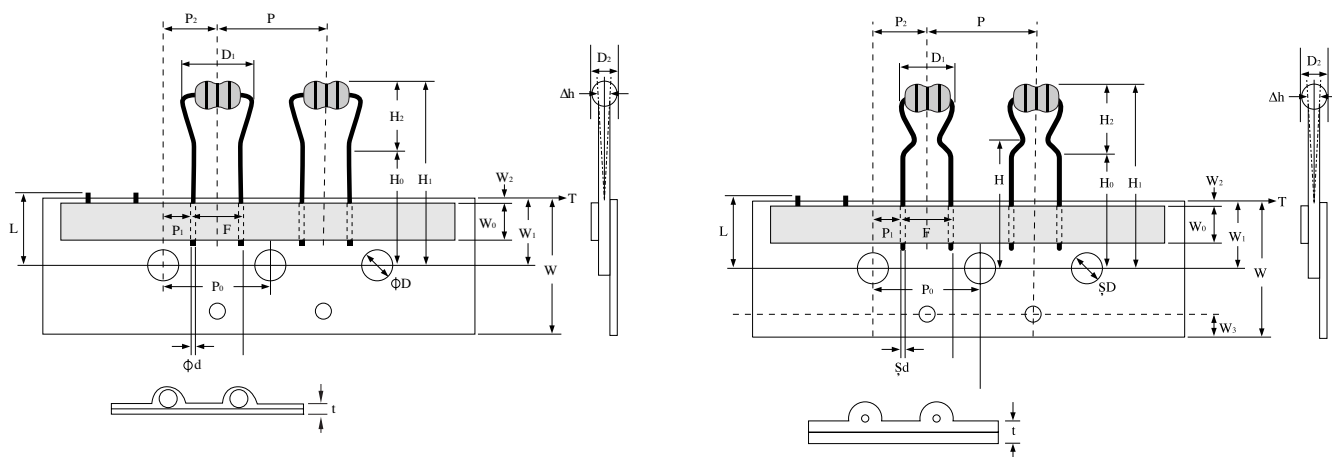
3 MARKING INDUCTANCE	
R22	0.22μH
1R5	1.5μH
120	12μH

4 INDUCTANCE TOLERENCE	
J	± 5%
K	± 10%

Color	Inductance[μH]		
	1st Digit	2nd Digit	Multiplier
	1	2	3
Black	0		× 1
Brown	1		× 10
Red	2		× 100
Orange	3		× 1000
Yellow	4		-
Green	5		-
Blue	6		-
Purple	7		-
Grey	8		-
White	9		-
Gold	-		× 0.1
Silver	-		× 0.01

RADIAL LEADED INDUCTORS

■ TAPING DIMENSIONS



Note 1. No more than 3 consecutive pieces can be omitted.

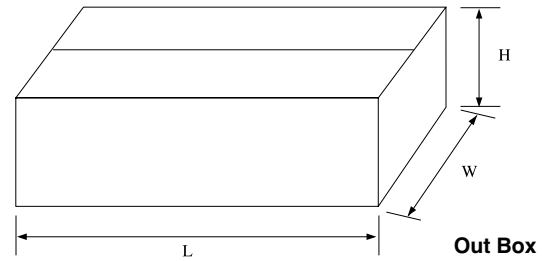
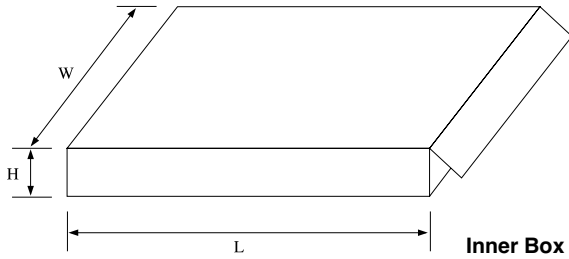
Unit: mm

Symbol	Dimensions			
	RD35H	RD35	RD40	RD45
D1	7.5max.	6.0max.	8.0max.	9.5max.
D2	4.0max.	4.0max.	5.0max.	6.0max.
H1	26max.	26max.	27.5max.	27.5max.
H2	5max.	9max.	10.5max.	10.5max.
H0	6.5 ≤ H ₀ - W ₁			
P	12.7 ± 1.0			
P0	12.7 ± 0.3			
P1	3.85 ± 0.5			
P2	6.35 ± 1.3			
F	5.0 ^{+0.8} _{-0.3}		5.0 ^{+0.6} _{-0.2}	
Δh	0.0 ± 2.0			
W	18 ^{+1.0} _{-0.5}			
W0	6.0 ± 0.1			
W1	9 ^{+0.75} _{-0.5}		9 ^{+1.0} _{-0.5}	
W2	T ≥ W2			
ØD	4.0 ± 0.3			
Ød	0.50 ± 0.05		0.60 ± 0.05	
L	11.0max.			
t	0.5 ± 2.0			

P0: Accumulated error for 20 pitches is ± 1 mm

W2: Bonding tape must not protrude from the base tape.

■ PACKAGING



Type	Inner Box		Out Box			Item
	Size(mm) (W×H×L)	Quantity	Size(mm) (W×H×L)	Quantity	Wtight	
RD Series	187×40×325	2,000	340×255×580	36,000	12Kg	RD35
		1,000		18,000	10Kg	RD40
		1,500		27,000	18Kg	RD45
		2,000		36,000	12Kg	RD35H

■ AVAILABLE INDUCTANCE RANGE

Type		0.22	1μH	10μH	100μH	1,000μH	10,000μH	20,000μH
RD35	I _{max} .(mA)	1,000	790	460	150	55		
	Inductance(μH)					1,000μH		
	R _{dc} (mΩ)	0.09	0.17	0.45	3.3	28		
RD40	I _{max} .(mA)	816	707	353	174	48		
	Inductance(μH)					2,200μH		
	R _{dc} (mΩ)	0.15	0.2	0.8	3.3	42		
RD45	I _{max} .(mA)			780	260	85	21	
	Inductance(μH)							15,000μH
	R _{dc} (mΩ)			0.19	0.85	8.9	160	
RD35H	I _{max} .(mA)	1,000	790	460	150	56		
	Inductance(μH)					1,000μH		
	R _{dc} (mΩ)	0.09	0.17	0.45	3.3	31.5		

ITEM PART NUMBERS

● RD35

Ordering Code	Inductance [μH]	Inductance Tolerance	Q (min.)	Measuring Frequency [MHz]	Self-Resonant Frequency [MHz] (min.)	DC Resistance [Ω] (max.)	Rated Current [mA] (max.)
RD35R22K	0.22	± 10% (± 5%)	50	25.2	170	0.09	1000
RD35R27K	0.27				160	0.10	980
RD35R33K	0.33				140	0.11	960
RD35R39K	0.39				130	0.12	940
RD35R47K	0.47				120	0.13	910
RD35R56K	0.56				110	0.14	880
RD35R68K	0.68				100	0.15	850
RD35R82K	0.82				90	0.16	820
RD351R0K	1.0				82	0.17	790
RD351R2K	1.2			7.96	70	0.18	760
RD351R5K	1.5				65	0.20	730
RD351R8K	1.8				57	0.22	700
RD352R2K	2.2				47	0.24	670
RD352R7K	2.7				40	0.26	640
RD353R3K	3.3				35	0.28	610
RD353R9K	3.9				33	0.30	580
RD354R7K	4.7				31	0.33	560
RD355R6K	5.6				27	0.36	540
RD356R8K	6.8				24	0.39	520
RD358R2K	8.2				22	0.42	490
RD35100K	10				21	0.45	460
RD35120K	12			2.52	18	1.2	350
RD35150K	15				16	1.3	330
RD35180K	18				14	1.4	300
RD35220K	22				13	1.5	270
RD35270K	27				12	1.6	250
RD35330K	33				11	1.8	235
RD35390K	39				10	2.0	220
RD35470K	47				9.5	2.2	200
RD35560K	56				9.0	2.4	190
RD35680K	68				8.5	2.8	170
RD35820K	82				8.0	3.0	155
RD35101K	100				7.5	3.3	150
RD35121K	120			0.796	6.8	4.2	140
RD35151K	150				6.2	5.0	130
RD35181K	180				5.6	6.0	125
RD35221K	220				5.0	7.5	120
RD35271K	270				4.6	11	105
RD35331K	330				4.2	13	95
RD35391K	390				3.8	15	90
RD35471K	470				3.4	17	80
RD35561K	560				3.0	19	75
RD35681K	680				2.6	22	68
RD35821K	820				2.2	25	60
RD35102K	1000				2.0	28	55

● RD35H

Ordering Code	Inductance [μH]	Inductanced Tolerance	Q (min.)	Measuring Frequency [MHz]	Self-Resonant Frequency [MHz] (min.)	DC Resistance [Ω] (max.)	Rated Current [mA] (max.)	
RD35T-R22K-H	0.22	± 10% (± 5%)	50	25.2	170.0	0.09	1000	
RD35T-R27K-H	0.27				160.0	0.10	980	
RD35T-R33K-H	0.33				140.0	0.11	960	
RD35T-R39K-H	0.39				130.0	0.12	940	
RD35T-R47K-H	0.47				120.0	0.13	910	
RD35T-R56K-H	0.56				110.0	0.14	880	
RD35T-R68K-H	0.68				100.0	0.15	850	
RD35T-R82K-H	0.82				90.0	0.16	820	
RD35T-1R0J-H	1.0			7.96	82.0	0.17	790	
RD35T-1R2J-H	1.2				70.0	0.18	760	
RD35T-1R5J-H	1.5				65.0	0.20	730	
RD35T-1R8J-H	1.8				57.0	0.22	700	
RD35T-2R2J-H	2.2				47.0	0.24	670	
RD35T-2R7J-H	2.7				40.0	0.26	640	
RD35T-3R3J-H	3.3				35.0	0.28	610	
RD35T-3R9J-H	3.9				33.0	0.30	580	
RD35T-4R7J-H	4.7				31.0	0.33	560	
RD35T-5R6J-H	5.6				27.0	0.36	540	
RD35T-6R8J-H	6.8				24.0	0.39	520	
RD35T-8R2J-H	8.2				22.0	0.42	490	
RD35T-100J-H	10			2.52	21.0	0.45	460	
RD35T-120J-H	12				18.0	1.2	350	
RD35T-150J-H	15				16.0	1.3	330	
RD35T-180J-H	18				14.0	1.4	300	
RD35T-220J-H	22				13.0	1.5	270	
RD35T-270J-H	27				12.0	1.6	250	
RD35T-330J-H	33				11.0	1.8	235	
RD35T-390J-H	39				10.0	2.0	220	
RD35T-470J-H	47				9.5	2.2	200	
RD35T-560J-H	56				9.0	2.4	190	
RD35T-680J-H	68				8.5	2.8	170	
RD35T-820J-H	82				8.0	3.0	155	
RD35T-101K-H	100			0.796	7.5	3.3	150	
RD35T-121K-H	120				6.8	4.2	140	
RD35T-151K-H	150				6.2	5.0	130	
RD35T-181K-H	180				5.6	6.0	125	
RD35T-221K-H	220				5.0	7.5	120	
RD35T-271K-H	270				4.6	11.0	105	
RD35T-331K-H	330				4.2	13.0	95	
RD35T-391K-H	390				3.8	15.0	90	
RD35T-471K-H	470				3.4	17.0	80	
RD35T-561K-H	560		30		2.4	21.0	69	
RD35T-681K-H	680				2.2	23.5	65	
RD35T-821K-H	820				2.0	26.5	61	
RD35T-102K-H	1000			25	0.252	1.8	31.5	56

ITEM PART NUMBERS

● RD40

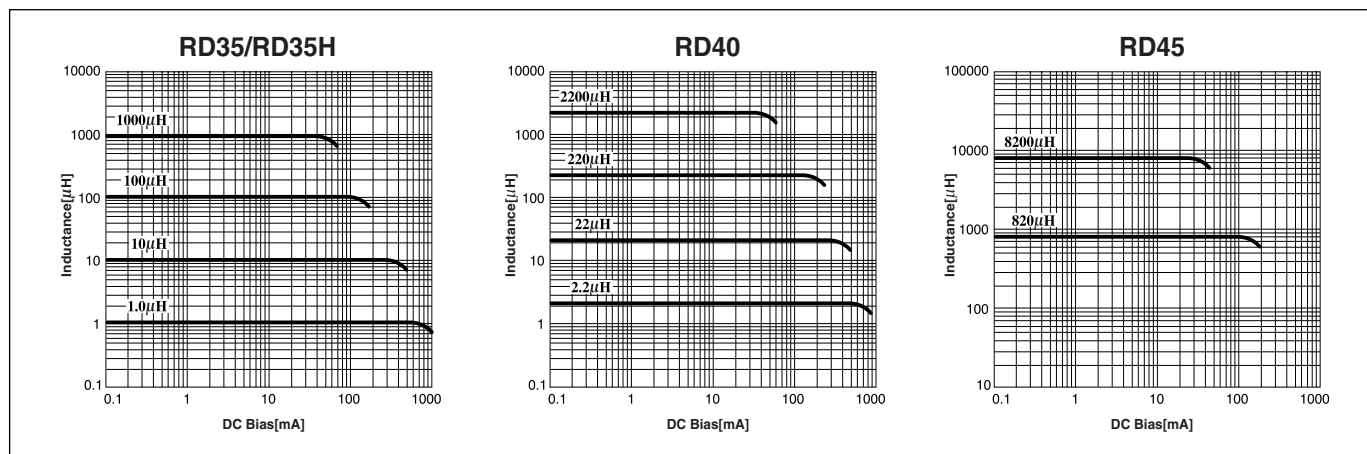
Ordering Code	Inductance [μH]	Inductanced Tolerance	Q (min.)	Measuring Frequency [MHz]	Self-Resonant Frequency [MHz] (min.)	DC Resistance [Ω] (max.)	Rated Current [mA] (max.)
RD40R22K	0.22	± 10% (± 5%)	50	25.2	150	0.15	816
RD40R27K	0.27				150	0.15	816
RD40R33K	0.33				150	0.15	816
RD40R39K	0.39				130	0.15	816
RD40R47K	0.47				130	0.15	816
RD40R56K	0.56				130	0.20	707
RD40R68K	0.68				120	0.20	707
RD40R82K	0.82				120	0.20	707
RD401R0K	1.0			7.96	100	0.20	707
RD401R2K	1.2				85	0.20	707
RD401R5K	1.5				70	0.22	674
RD401R8K	1.8				60	0.22	674
RD402R2K	2.2				55	0.25	632
RD402R7K	2.7				50	0.27	608
RD403R3K	3.3				45	0.30	577
RD403R9K	3.9				40	0.32	559
RD404R7K	4.7				35	0.35	534
RD405R6K	5.6				33	0.37	519
RD406R8K	6.8				27	0.40	500
RD408R2K	8.2				25	0.45	471
RD40100K	10			2.52	20	0.80	353
RD40120K	12				18	0.90	333
RD40150K	15				17	1.0	316
RD40180K	18				15	1.2	288
RD40220K	22				13	1.4	267
RD40270K	27				11	1.7	242
RD40330K	33				10.5	2.0	223
RD40390K	39				10.0	2.4	204
RD40470K	47				9.5	2.7	192
RD40560K	56				9.0	2.9	185
RD40680K	68				8.5	3.1	179
RD40820K	82				7.5	3.3	174
RD40101K	100		45	0.796	6.8	3.3	174
RD40121K	120				6.2	3.5	169
RD40151K	150				5.7	3.7	164
RD40181K	180				5.3	4.0	158
RD40221K	220				4.0	5.2	138
RD40271K	270				3.6	5.8	131
RD40331K	330				3.3	6.5	124
RD40391K	390				3.0	7.5	115
RD40471K	470				2.8	8.0	111
RD40561K	560				2.4	12.5	89
RD40681K	680				2.2	14.0	84
RD40821K	820				2.0	15.5	80
RD40102K	1000		40	0.252	1.8	18.5	73
RD40122K	1200		30		1.7	29.0	58
RD40152K	1500				1.5	34.0	54
RD40182K	1800				1.4	37.0	51
RD40222K	2200				1.2	32.0	48

● RD45

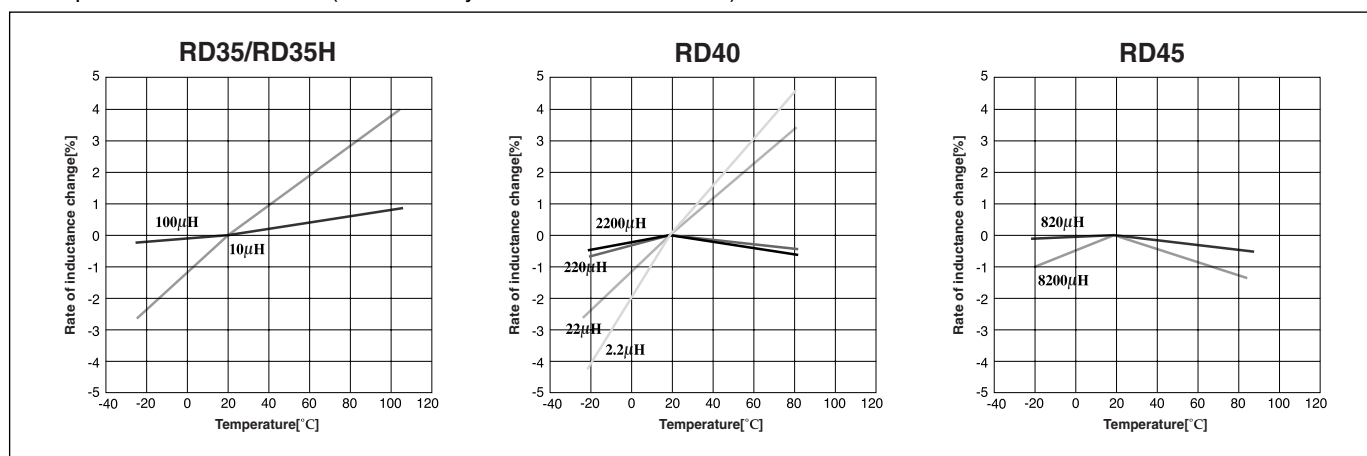
Ordering Code	Inductance [μH]	Inductanced Tolerance	Q (min.)	Measuring Frequency [MHz]	Self-Resonant Frequency [MHz] (min.)	DC Resistance [Ω] (max.)	Rated Current [mA] (max.)	
RD45 100K	10	± 10% (± 5%)	20	2.52	17.0	0.19	780	
RD45 120K	12				14.0	0.22	730	
RD45 150K	15				12.0	0.24	650	
RD45 180K	18				10.5	0.26	610	
RD45 220K	22				10.0	0.29	540	
RD45 270K	27				9.5	0.32	480	
RD45 330K	33				8.5	0.34	440	
RD45 390K	39				8.0	0.42	410	
RD45 470K	47				7.0	0.47	375	
RD45 560K	56				6.8	0.52	340	
RD45 680K	68				15	6.5	0.58	320
RD45 820K	82					6.3	0.64	285
RD45 101K	100		25	0.796	6.0	0.85	260	
RD45 121K	120				5.4	1.00	240	
RD45 151K	150				4.8	1.20	215	
RD45 181K	180		30		4.0	1.50	195	
RD45 221K	220				3.9	1.65	180	
RD45 271K	270				3.6	2.15	160	
RD45 331K	330		35		3.3	2.90	145	
RD45 391K	390				3.0	3.25	135	
RD45 471K	470				2.8	4.05	125	
RD45 561K	560		40		2.4	4.45	115	
RD45 681K	680				2.2	5.85	105	
RD45 821K	820				2.0	6.60	90	
RD45 102K	1000		45	0.252	1.8	8.90	85	
RD45 122K	1200				1.7	10.5	75	
RD45 152K	1500				1.5	11.9	70	
RD45 182K	1800				1.3	16.5	60	
RD45 222K	2200				1.2	19.0	58	
RD45 272K	2700		40		0.8	32.0	52	
RD45 332K	3300				0.7	34.0	48	
RD45 392K	3900				0.7	38.0	45	
RD45 472K	4700				0.6	56.0	40	
RD45 562K	5600				0.5	63.0	37	
RD45 682K	6800				0.4	70.0	34	
RD45 822K	8200				0.4	77.0	31	
RD45 103K	10000		25	0.0796	0.3	95.0	28	
RD45 123K	12000				0.2	110.0	25	
RD45 153K	15000		20		0.1	160.0	21	

ELECTRICAL CHARACTERISTICS

● DC Bias Characteristics (Measured by HP4284A + HP42841A)



● Temperature Characteristics (Measured by HP4284A + HP42841A)



● Q-Characteristics (Measured by HP 4285A + HP 42851A)

