



● FEATURE

1. Small size and light weight
2. Wide sensitivity range; high Q and high resonant frequency
3. Convenient for automated insertion; resin coating for resistance to environmental drying and long lifespan
4. Low cost

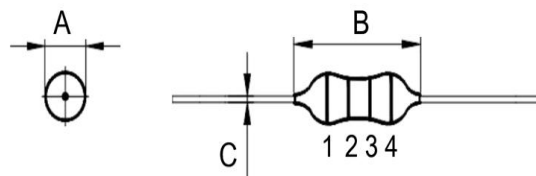


● ORDERING INFORMATION

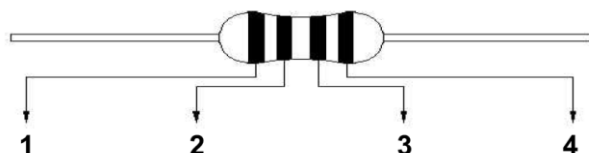
DCR 0510 - 4R7 K
Series Dimension Inductance Tolerance (J=±5%, K=±10%, M=±20%)

● DIMENSION

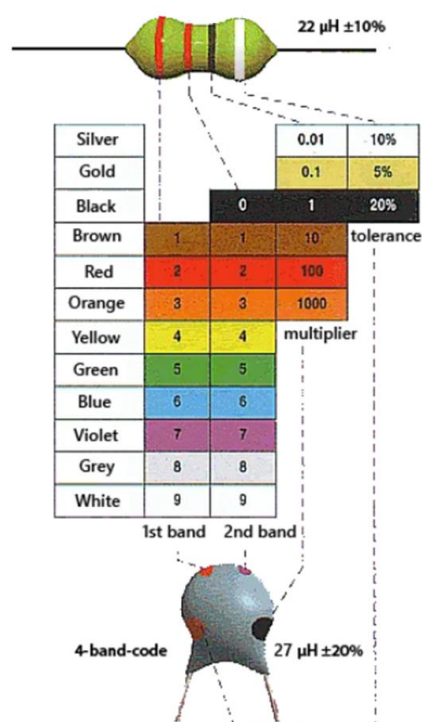
Type	A(Max)	B(Max)	ØC(±0.1)	SPQ
0204	2.8	4.8	0.45	2000
0307	3.0	7.0	0.50	2000
0410	4.0	10.5	0.60	2000
0510	5.0	11.0	0.60	2000
0512	5.0	12.0	0.60	2000



● MARKING



4-BAND CODE	1st BAND	2nd BAND	MULTIPLIER	TOLERANCE
Silver			$\times 10^{-2}$ (0.01)	K=±10%
Gold			$\times 10^{-1}$ (0.1)	J=±5%
Black		0	$\times 10^0$ (1)	M=±20%
Brown	1	1	$\times 10^1$ (10)	
Red	2	2	$\times 10^2$ (100)	
Orange	3	3	$\times 10^3$ (1000)	
Yellow	4	4	$\times 10^4$ (10000)	
Green	5	5	$\times 10^5$ (100000)	
Blue	6	6		
Purple	7	7		
Gray	8	8		
White	9	9		





● **ELECTRICAL CHARACTERISTICS**

Part Number	Inductance	Test Frequency	Q	S.R.F.	D.C. Resistance	IDC
	(μ H)	(MHz)	(min)	(MHz)min	(Ω)max	(mA)max
DCR0204-R10M	0.1	25.2	50	250	0.03	700
DCR0204-R12M	0.12	25.2	55	230	0.035	600
DCR0204-R15M	0.15	25.2	55	200	0.04	620
DCR0204-R18M	0.18	25.2	55	180	0.045	600
DCR0204-R22M	0.22	25.2	55	160	0.05	400
DCR0204-R27M	0.27	25.2	50	150	0.065	380
DCR0204-R33M	0.33	25.2	50	150	0.075	370
DCR0204-R39M	0.39	25.2	50	150	0.08	350
DCR0204-R47M	0.47	25.2	60	150	0.085	330
DCR0204-R56M	0.56	25.2	60	150	0.09	320
DCR0204-R68M	0.68	25.2	50	120	0.1	310
DCR0204-R82M	0.82	25.2	50	110	0.15	290
DCR0204-1R0K	1	25.2	50	110	0.22	270
DCR0204-1R2K	1.2	7.96	40	100	0.3	260
DCR0204-1R5K	1.5	7.96	40	80	0.35	250
DCR0204-1R8K	1.8	7.96	40	65	0.45	240
DCR0204-2R2K	2.2	7.96	40	55	0.55	230
DCR0204-2R7K	2.7	7.96	40	50	0.6	220
DCR0204-3R3K	3.3	7.96	40	42	0.65	210
DCR0204-3R9K	3.9	7.96	45	38	0.85	200
DCR0204-4R7K	4.7	7.96	45	34	1	190
DCR0204-5R6K	5.6	7.96	45	32	1.15	180
DCR0204-6R8K	6.8	7.96	40	30	1.2	175
DCR0204-8R2K	8.2	7.96	40	26	1.25	165
DCR0204-100K	10	7.96	40	24	1.5	160
DCR0204-120K	12	2.52	40	22	2.2	150
DCR0204-150K	15	2.52	50	20	2.5	145
DCR0204-180K	18	2.52	50	18	2.8	140
DCR0204-220K	22	2.52	50	17	3	130
DCR0204-270K	27	2.52	55	14	3.5	80
DCR0204-330K	33	2.52	55	14	3.8	76
DCR0204-390K	39	2.52	50	13	4.2	74
DCR0204-470K	47	2.52	50	12	5.8	70
DCR0204-560K	56	2.52	50	11	6.4	68
DCR0204-680K	68	2.52	50	10	7.2	64
DCR0204-820K	82	2.52	50	9.5	8.5	46
DCR0204-101K	100	0.796	50	9	11	44
DCR0204-121K	120	0.796	40	6.5	13	42



Part Number	Inductance	Test Frequency	Q	S.R.F.	D.C. Resistance	IDC
	(μ H)	(MHz)	(min)	(MHz)min	(Ω)max	(mA)max
DCR0204-151K	150	0.796	40	6	16	39
DCR0204-181K	180	0.796	40	5.2	18	37
DCR0204-221K	220	0.796	40	4.5	20	35
DCR0204-271K	270	0.796	30	3.5	29	28
DCR0204-331K	330	0.796	30	3	30	26
DCR0204-391K	390	0.796	30	2.7	32	25
DCR0204-471K	470	0.796	30	2.6	35	24
DCR0204-561K	560	0.796	30	2.5	40	23
DCR0204-681K	680	0.796	30	2.2	42	22
DCR0204-821K	820	0.796	30	2.1	46	21
DCR0204-102K	1000	0.796	30	2	52	20

Part Number	Inductance	Test Frequency	Q	S.R.F.	D.C. Resistance	IDC
	(μ H)	(MHz)	(min)	(MHz)min	(Ω)max	(mA)max
DCR0307-R10M	0.1	25.2	45	480	0.06	1400
DCR0307-R12M	0.12	25.2	45	450	0.06	1350
DCR0307-R15M	0.15	25.2	45	420	0.07	1270
DCR0307-R18M	0.18	25.2	45	400	0.07	1200
DCR0307-R22M	0.22	25.2	45	380	0.08	1150
DCR0307-R27M	0.27	25.2	45	360	0.09	1100
DCR0307-R33M	0.33	25.2	45	320	0.1	1100
DCR0307-R39M	0.39	25.2	45	310	0.12	1000
DCR0307-R47M	0.47	25.2	45	300	0.15	1000
DCR0307-R56M	0.56	25.2	45	280	0.18	950
DCR0307-R68M	0.68	25.2	45	240	0.2	900
DCR0307-R82M	0.82	25.2	45	200	0.22	900
DCR0307-1R0K	1	25.2	45	180	0.25	815
DCR0307-1R2K	1.2	7.96	45	160	0.28	740
DCR0307-1R5K	1.5	7.96	45	140	0.3	700
DCR0307-1R8K	1.8	7.96	45	120	0.35	655
DCR0307-2R2K	2.2	7.96	45	110	0.4	630
DCR0307-2R7K	2.7	7.96	45	85	0.45	595
DCR0307-3R3K	3.3	7.96	45	74	0.5	575
DCR0307-3R9K	3.9	7.96	45	62	0.55	555
DCR0307-4R7K	4.7	7.96	45	48	0.6	530
DCR0307-5R6K	5.6	7.96	45	35	0.65	500
DCR0307-6R8K	6.8	7.96	45	28	0.7	470
DCR0307-8R2K	8.2	7.96	45	20	0.8	425



Part Number	Inductance	Test Frequency	Q	S.R.F.	D.C. Resistance	IDC
	(μ H)	(MHz)	(min)	(MHz)min	(Ω)max	(mA)max
DCR0307-100K	10	7.96	45	18	0.85	370
DCR0307-120K	12	2.52	45	16	0.9	350
DCR0307-150K	15	2.52	45	14	1	335
DCR0307-180K	18	2.52	45	12	1.2	315
DCR0307-220K	22	2.52	45	10	1.35	285
DCR0307-270K	27	2.52	45	9	1.8	270
DCR0307-330K	33	2.52	45	8	2.1	255
DCR0307-390K	39	2.52	45	7.5	2.3	240
DCR0307-470K	47	2.52	50	7	2.6	205
DCR0307-560K	56	2.52	50	6.5	2.9	195
DCR0307-680K	68	2.52	50	6	3.2	185
DCR0307-820K	82	2.52	50	5.5	3.8	175
DCR0307-101K	100	2.52	50	5	4.2	165
DCR0307-121K	120	0.796	50	4.8	4.5	160
DCR0307-151K	150	0.796	50	4.5	5	150
DCR0307-181K	180	0.796	50	4	6	140
DCR0307-221K	220	0.796	50	3.5	7	130
DCR0307-271K	270	0.796	50	3	120	28
DCR0307-331K	330	0.796	50	2.8	8	100
DCR0307-391K	390	0.796	50	2.6	10	95
DCR0307-471K	470	0.796	50	2.4	13	90
DCR0307-561K	560	0.796	50	2	15	85
DCR0307-681K	680	0.796	50	2	16	75
DCR0307-821K	820	0.796	50	1.8	23	65
DCR0307-102K	1000	0.796	50	1.4	26	60

Part Number	Inductance	Test Frequency	Q	S.R.F.	D.C. Resistance	IDC
	(μ H)	(MHz)	(min)	(MHz)min	(Ω)max	(mA)max
DCR0410-R10M	0.1	25.2	50	480	0.06	1700
DCR0410-R12M	0.12	25.2	50	450	0.06	1640
DCR0410-R15M	0.15	25.2	50	420	0.07	1560
DCR0410-R18M	0.18	25.2	50	400	0.07	1480
DCR0410-R22M	0.22	25.2	50	380	0.08	1400
DCR0410-R27M	0.27	25.2	50	340	0.09	1320
DCR0410-R33M	0.33	25.2	50	300	0.1	1280
DCR0410-R39M	0.39	25.2	50	280	0.12	1200
DCR0410-R47M	0.47	25.2	50	250	0.13	1150
DCR0410-R56M	0.56	25.2	50	230	0.14	1100



Part Number	Inductance	Test Frequency	Q	S.R.F.	D.C. Resistance	IDC
	(μ H)	(MHz)	(min)	(MHz)min	(Ω)max	(mA)max
DCR0410-R68M	0.68	25.2	50	210	0.15	1030
DCR0410-R82M	0.82	25.2	50	172	0.16	980
DCR0410-1R0K	1	25.2	50	157	0.17	920
DCR0410-1R2K	1.2	7.96	50	144	0.18	880
DCR0410-1R5K	1.5	7.96	50	131	0.2	830
DCR0410-1R8K	1.8	7.96	50	121	0.22	790
DCR0410-2R2K	2.2	7.96	50	110	0.24	750
DCR0410-2R7K	2.7	7.96	60	100	0.25	720
DCR0410-3R3K	3.3	7.96	60	94	0.3	670
DCR0410-3R9K	3.9	7.96	60	86	0.35	640
DCR0410-4R7K	4.7	7.96	70	80	0.4	650
DCR0410-5R6K	5.6	7.96	70	74	0.45	590
DCR0410-6R8K	6.8	7.96	70	68	0.5	550
DCR0410-8R2K	8.2	7.96	80	40	0.6	530
DCR0410-100K	10	7.96	80	40	0.65	500
DCR0410-120K	12	2.52	70	34	0.7	480
DCR0410-150K	15	2.52	70	20	0.75	460
DCR0410-180K	18	2.52	60	14	0.8	430
DCR0410-220K	22	2.52	60	9.9	0.9	410
DCR0410-270K	27	2.52	50	7.6	1	390
DCR0410-330K	33	2.52	50	6.5	1.1	370
DCR0410-390K	39	2.52	50	6.5	1.2	350
DCR0410-470K	47	2.52	45	6.3	1.3	340
DCR0410-560K	56	2.52	45	6.2	1.5	320
DCR0410-680K	68	2.52	40	5.7	1.8	305
DCR0410-820K	82	2.52	35	5.3	2	290
DCR0410-101K	100	2.52	30	4.8	2.5	275
DCR0410-121K	120	0.796	30	3.8	3	185
DCR0410-151K	150	0.796	60	3.5	4	175
DCR0410-181K	180	0.796	60	3	4.5	165
DCR0410-221K	220	0.796	60	2.8	5	155
DCR0410-271K	270	0.796	60	2.6	6	145
DCR0410-331K	330	0.796	60	2.4	6.5	137
DCR0410-391K	390	0.796	60	2	7.5	133
DCR0410-471K	470	0.796	50	1.8	8.5	126
DCR0410-561K	560	0.796	50	1.6	9.5	120
DCR0410-681K	680	0.796	45	1.6	12	113
DCR0410-821K	820	0.796	45	1.4	14	105
DCR0410-102K	1000	0.796	40	1.2	20	85



Part Number	Inductance	Test Frequency	Q	S.R.F.	D.C. Resistance	IDC
	(μ H)	(MHz)	(min)	(MHz)min	(Ω)max	(mA)max
DCR0510-R56M	0.56	25.2	50	280	0.14	1150
DCR0510-R68K	0.68	25.2	50	250	0.15	1100
DCR0510-R82M	0.82	25.2	50	220	0.22	900
DCR0510-1R0K	1	25.2	50	200	0.29	785
DCR0510-1R2K	1.2	7.96	33	180	0.42	650
DCR0510-1R5K	1.5	7.96	33	160	0.5	600
DCR0510-1R8K	1.8	7.96	33	150	0.65	525
DCR0510-2R2K	2.2	7.96	33	135	0.95	435
DCR0510-2R7K	2.7	7.96	33	120	1.5	385
DCR0510-3R3K	3.3	7.96	33	110	2	300
DCR0510-3R9K	3.9	7.96	33	100	2.3	280
DCR0510-4R7K	4.7	7.96	33	90	2.8	260
DCR0510-5R6K	5.6	7.96	45	60	0.32	495
DCR0510-6R8K	6.8	7.96	45	55	0.5	395
DCR0510-8R2K	8.2	7.96	45	50	0.6	360
DCR0510-100K	10	7.96	45	45	0.9	290
DCR0510-120K	12	2.52	60	42	1.2	265
DCR0510-150K	15	2.52	65	40	1.7	240
DCR0510-180K	18	2.52	65	34	2.3	185
DCR0510-220K	22	2.52	65	30	2.6	175
DCR0510-270K	27	2.52	45	25	2	170
DCR0510-330K	33	2.52	45	19	2.3	165
DCR0510-390K	39	2.52	45	15	2.5	165
DCR0510-470K	47	2.52	45	14	2.6	165
DCR0510-560K	56	2.52	50	12	3	164
DCR0510-680K	68	2.52	50	11	3.3	156
DCR0510-820K	82	2.52	50	10	3.9	143
DCR0510-101K	100	2.52	50	9	4.5	133
DCR0510-121K	120	0.796	60	8.5	5.2	124
DCR0510-151K	150	0.796	40	7.8	6.18	114
DCR0510-181K	180	0.796	60	7	6.8	108



Part Number	Inductance	Test Frequency	Q	S.R.F.	D.C. Resistance	IDC
	(μ H)	(MHz)	(min)	(MHz)min	(Ω)max	(mA)max
DCR0510-221K	220	0.796	60	6.2	7.5	103
DCR0510-271K	270	0.796	60	5.6	8.2	103
DCR0510-331K	330	0.796	60	5	9.1	102
DCR0510-391K	390	0.796	60	4.5	10	102
DCR0510-471K	470	0.796	60	4	11	100
DCR0510-561K	560	0.796	60	3.6	12.3	85
DCR0510-681K	680	0.796	60	3.6	13.7	81
DCR0510-821K	820	0.796	60	1.32	3.1	180
DCR0510-102K	1000	0.796	60	1.25	4.1	156

Part Number	Inductance	Test Frequency	Q	S.R.F.	D.C. Resistance	IDC
	(μ H)	(MHz)	(min)	(MHz)min	(Ω)max	(mA)max
DCR0512-122K	1.2	252	80	1.3	9	110
DCR0512-152K	1.5	252	80	1.3	10	100
DCR0512-182K	1.8	252	80	1.2	11	90
DCR0512-222K	2.2	252	80	1.1	14	80
DCR0512-272K	2.7	252	80	0.85	18	75
DCR0512-332K	3.3	252	80	0.74	22	65
DCR0512-392K	3.9	252	80	0.7	26	60
DCR0512-472K	4.7	252	80	0.66	32	55
DCR0512-562K	5.6	252	70	0.64	34	50
DCR0512-682K	6.8	252	70	0.58	45	45
DCR0512-822K	8.2	252	50	0.5	60	40
DCR0512-103K	10	79.6	50	0.48	70	38
DCR0512-123K	12	79.6	50	0.46	82	35
DCR0512-153K	15	79.6	50	0.4	89	32
DCR0512-183K	18	79.6	40	0.37	140	28
DCR0512-223K	22	79.6	40	0.33	170	25
DCR0512-253K	25	79.6	40	0.28	185	24
DCR0512-273K	27	79.6	40	0.26	210	23
DCR0512-303K	30	79.6	40	0.25	240	22
DCR0512-333K	33	79.6	40	0.24	250	20