

# HPAL0204---0510 Series

## FEATURES

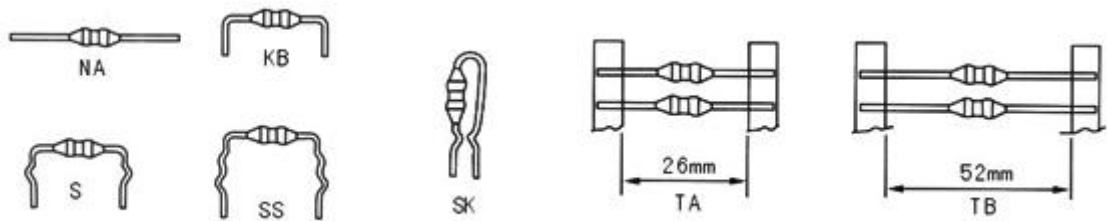
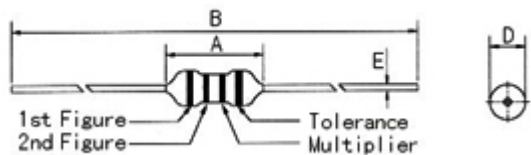
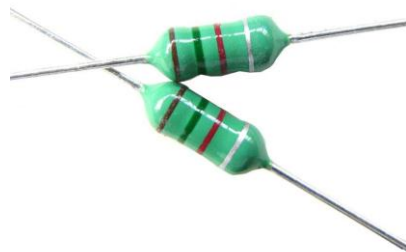
- Low cost solution
- Exceptional Q factor, high reliability
- High self-resonant frequency, low DCR

## APPLICATIONS

- Choke coils
- RF coils
- Peaking coils

Operating temperature range: -25℃~+120℃ (Including self-heating)

## SHAPE AND DIMENSIONS



Unit:mm

Series	A MAX.	B	D	E
HPAL0204	4.50	64±1	2.30	0.5±0.05
HPAL0307	7.00	64±1	3.00	0.5±0.05
HPAL0410	10.50	64±1	4.00	0.6±0.05
HPAL0510	12.00	64±1	5.00	0.6±0.05

## COLOR CODE

Cloor 颜色	Nominal Inductance 电感量 (uH)			Tolerance 允许公差
	First Figure 第一环	Second Figure 第二环	Multiplier 倍率	
Balck 黑	0		1	±20%
Brown 棕	1		10	-
Red 红	2		100	-
Orange 橙	3		1000	-
Yellow 黄	4		-	-
Green 绿	5		-	-
Blue 蓝	6		-	-

Violet 紫	7	-	-
Grey 灰	8	-	-
White 白	9	-	-
God 金	-	0.1	±5%
Silver 银	-	0.01	±10%

ELECTRICH PAL CHARACTERISTICS

HPAL0204 Series

Part Number	Inductance	Min. Quality Factor	Seif-Resonant Frequency	DC Resistance Max.	IDC Max.	Test Frequency
Unit	uH	-	MHz	OHM	A	MHz
Symbol	L	Q	SRF	DCR	IDC	-
HPAL0204-R22M	0.22	35	150	0.40	400	25.2
HPAL0204-R27M	0.27	35	150	0.43	380	25.2
HPAL0204-R33M	0.33	35	150	0.48	370	25.2
HPAL0204-R39M	0.39	35	150	0.51	350	25.2
HPAL0204-R47M	0.47	35	150	0.56	330	25.2
HPAL0204-R56M	0.56	35	150	0.61	320	25.2
HPAL0204-R68M	0.68	35	150	0.67	310	25.2
HPAL0204-R82M	0.82	35	150	0.74	290	25.2
HPAL0204-1R0M	1.0	35	150	0.80	270	25.2
HPAL0204-1R2M	1.2	40	110	0.90	260	7.96
HPAL0204-1R5M	1.5	40	80	1.00	250	7.96
HPAL0204-1R8M	1.8	40	60	1.10	240	7.96
HPAL0204-2R2M	2.2	40	45	1.20	230	7.96
HPAL0204-2R7M	2.7	40	40	1.30	220	7.96
HPAL0204-3R3K	3.3	40	38	1.40	210	7.96
HPAL0204-3R9K	3.9	40	35	1.60	200	7.96
HPAL0204-4R7K	4.7	40	32	1.70	190	7.96
HPAL0204-5R6K	5.6	40	30	1.90	180	7.96
HPAL0204-6R8K	6.8	40	28	2.00	175	7.96
HPAL0204-8R2K	8.2	40	26	2.20	165	7.96
HPAL0204-100K	10	40	24	2.50	160	7.96
HPAL0204-120K	12	40	22	2.50	150	2.52
HPAL0204-150K	15	40	20	2.80	145	2.52
HPAL0204-180K	18	40	18	3.10	140	2.52
HPAL0204-220K	22	40	17	3.40	130	2.52
HPAL0204-270K	27	40	16	4.30	80	2.52
HPAL0204-330K	33	40	14	4.70	76	2.52
HPAL0204-390K	39	40	13	5.20	74	2.52
HPAL0204-470K	47	40	12	5.80	70	2.52
HPAL0204-560K	56	40	11	6.40	68	2.52
HPAL0204-680K	68	40	10	7.20	64	2.52
HPAL0204-820K	82	40	9.5	11.0	46	2.52
HPAL0204-101K	100	40	9.0	12.0	44	2.52
HPAL0204-121K	120	40	8.0	13.0	42	0.796
HPAL0204-151K	150	40	6.0	16.0	39	0.796
HPAL0204-181K	180	40	5.5	18.0	37	0.796
HPAL0204-221K	220	40	5.0	20.0	35	0.796

HPAL0204-271K	270	40	4.6	25.0	25	0.796
HPAL0204-331K	330	40	4.2	30.0	25	0.796
HPAL0204-391K	390	40	3.8	34.0	25	0.796
HPAL0204-471K	470	40	3.5	38.0	24	0.796

HPAL0307 Series

Part Number	Inductance	Min. Quality Factor	Seif-Resonant Frequency	DC Resistance Max.	IDC Max.	Test Frequency
Unit	uH	-	MHz	OHM	A	MHz
Symbol	L	Q	SRF	DCR	IDC	-
HPAL0307-R22M	0.22	35	150	0.40	400	25.2-
HPAL0307-R27M	0.27	35	150	0.43	380	25.2
HPAL0307-R33M	0.33	35	150	0.48	370	25.2
HPAL0307-R39M	0.39	35	150	0.51	350	25.2
HPAL0307-R47M	0.47	35	150	0.56	330	25.2
HPAL0307-R56M	0.56	40	150	0.61	320	25.2
HPAL0307-R68M	0.68	40	150	0.67	310	25.2
HPAL0307-R82M	0.82	40	150	0.74	290	25.2
HPAL0307-1R0M	1.0	40	150	0.80	270	25.2
HPAL0307-1R2M	1.2	50	144	0.90	260	25.2
HPAL0307-1R5M	1.5	50	131	1.00	250	7.96
HPAL0307-1R8M	1.8	50	121	1.10	240	7.96
HPAL0307-2R2M	2.2	50	110	1.20	230	7.96
HPAL0307-2R7M	2.7	50	100	1.30	220	7.96
HPAL0307-3R3K	3.3	50	94	1.40	210	7.96
HPAL0307-3R9K	3.9	50	65	1.60	200	7.96
HPAL0307-4R7K	4.7	50	56	1.70	190	7.96
HPAL0307-5R6K	5.6	50	48	1.90	180	7.96
HPAL0307-6R8K	6.8	50	37	2.00	175	7.96
HPAL0307-8R2K	8.2	50	25	2.20	165	7.96
HPAL0307-100K	10	50	21	2.50	160	7.96
HPAL0307-120K	12	50	19	2.50	150	7.96
HPAL0307-150K	15	50	17	2.80	145	2.52
HPAL0307-180K	18	50	13	3.10	140	2.52
HPAL0307-220K	22	50	9.6	3.40	130	2.52
HPAL0307-270K	27	50	7.2	3.80	125	2.52
HPAL0307-330K	33	50	6.3	4.10	120	2.52
HPAL0307-390K	39	50	6.3	4.50	115	2.52
HPAL0307-470K	47	50	6.3	4.90	110	2.52
HPAL0307-560K	56	50	6.2	5.30	105	2.52
HPAL0307-680K	68	50	5.7	5.80	100	2.52
HPAL0307-820K	82	50	5.3	6.30	95	2.52
HPAL0307-101K	100	50	4.8	7.00	90	2.52
HPAL0307-121K	120	50	3.8	13.0	90	2.52
HPAL0307-151K	150	50	3.5	15.0	85	0.796
HPAL0307-181K	180	50	3.3	16.0	80	0.796
HPAL0307-221K	220	50	3.0	17.0	75	0.796
HPAL0307-271K	270	50	2.8	19.0	65	0.796
HPAL0307-331K	330	50	2.6	20.0	60	0.796
HPAL0307-391K	390	50	2.4	22.0	55	0.796

HPAL0307-471K	470	50	2.25	24.0	55	0.796
HPAL0307-561K	560	50	2.10	26.0	50	0.796
HPAL0307-681K	680	50	1.95	28.0	45	0.796
HPAL0307-821K	820	50	1.85	30.0	40	0.796
HPAL0307-102K	1000	50	1.40	33.0	40	0.796

HPAL0410 Series

Part Number	Inductance	Min. Quality Factor	Seif-Resonant Frequency	DC Resistance Max.	IDC Max.	Test Frequency
Unit	uH	-	MHz	OHM	A	MHz
Symbol	L	Q	SRF	DCR	IDC	-
HPAL0410-R22M	0.22	45	300	0.10	1400	25.2
HPAL0410-R27M	0.27	45	270	0.11	1320	25.2
HPAL0410-R33M	0.33	45	250	0.12	1280	25.2
HPAL0410-R39M	0.39	45	230	0.13	1200	25.2
HPAL0410-R47M	0.47	45	220	0.14	1150	25.2
HPAL0410-R56M	0.56	45	200	0.15	1100	25.2
HPAL0410-R68M	0.68	45	190	0.16	1030	25.2
HPAL0410-R82M	0.82	45	172	0.17	980	25.2
HPAL0410-1R0M	1.00	45	157	0.19	920	7.96
HPAL0410-1R2M	1.20	50	144	0.21	880	7.96
HPAL0410-1R5M	1.50	50	131	0.23	830	7.96
HPAL0410-1R8M	1.80	55	121	0.25	790	7.96
HPAL0410-2R2M	2.20	55	110	0.28	750	7.96
HPAL0410-2R7M	2.70	60	100	0.30	720	7.96
HPAL0410-3R3K	3.30	65	94	0.34	670	7.96
HPAL0410-3R9K	3.90	65	55	0.37	640	7.96
HPAL0410-4R7K	4.70	70	56	0.39	620	7.96
HPAL0410-5R6K	5.60	70	48	0.43	590	7.96
HPAL0410-6R8K	6.80	75	37	0.48	550	7.96
HPAL0410-8R2K	8.20	80	25	0.52	530	7.96
HPAL0410-100K	10.0	65	21	0.58	500	7.96
HPAL0410-120K	12.0	50	19	0.63	480	2.52
HPAL0410-150K	15.0	50	17	0.72	460	2.52
HPAL0410-220K	22.0	50	9.6	0.84	410	2.52
HPAL0410-270K	27.0	55	7.2	0.94	390	2.52
HPAL0410-330K	33.0	55	6.6	1.03	370	2.52
HPAL0410-390K	39.0	50	6.6	1.12	350	2.52
HPAL0410-470K	47.0	45	6.3	1.22	340	2.52
HPAL0410-560K	56.0	40	6.2	1.34	320	2.52
HPAL0410-680K	68.0	40	5.7	1.47	305	2.52
HPAL0410-820K	82.0	35	5.3	1.62	290	2.52
HPAL0410-101K	100	30	4.8	1.80	275	2.52
HPAL0410-121K	120	55	3.8	3.70	185	0.796
HPAL0410-151K	150	45	3.5	4.20	175	0.796
HPAL0410-181K	180	50	3.3	4.60	165	0.796
HPAL0410-221K	220	55	3.0	5.10	155	0.796
HPAL0410-271K	270	65	2.8	5.80	145	0.796
HPAL0410-331K	330	65	2.6	6.40	137	0.796
HPAL0410-391K	390	65	2.4	7.00	133	0.796

HPAL0410-471K	470	60	2.25	7.70	126	0.796
HPAL0410-561K	560	60	2.10	8.50	120	0.796
HPAL0410-681K	680	55	1.95	9.40	113	0.796
HPAL0410-821K	820	55	1.85	10.5	105	0.796
HPAL0410-102K	1000	50	1.40	14.0	100	0.796

HPAL0510 Series

Part Number	Inductance	Min. Quality Factor	Seif-Resonant Frequency	DC Resistance Max.	IDC Max.	Test Frequency
Unit	uH	-	MHz	OHM	A	MHz
Symbol	L	Q	SRF	DCR	IDC	-
HPAL0510-471K	470	60	1.90	7.70	126	0.796
HPAL0510-561K	560	50	1.80	8.50	120	0.796
HPAL0510-681K	680	55	1.50	9.00	113	0.796
HPAL0510-821K	820	45	1.20	10.5	105	0.796
HPAL0510-102K	1000	40	1.00	14.0	100	0.252
HPAL0510-122K	1200	40	0.95	16.9	95	0.252
HPAL0510-152K	1500	40	0.90	21.6	90	0.252
HPAL0510-182K	1800	40	0.85	24.0	85	0.252
HPAL0510-222K	2200	40	0.80	34.7	80	0.252
HPAL0510-272K	2700	40	0.75	40.0	75	0.252
HPAL0510-332K	3300	40	0.70	59.5	62	0.252
HPAL0510-392K	3900	40	0.65	66.0	59	0.252
HPAL0510-472K	4700	40	0.60	74.0	55	0.252
HPAL0510-562K	5600	30	0.50	80.0	40	0.252
HPAL0510-682K	6800	30	0.45	85.0	35	0.252
HPAL0510-822K	8200	30	0.40	95.0	30	0.252
HPAL0510-103K	10000	20	0.35	105	25	0.252