

Unshielded Construction - DIP / DRO Series



Feature

1. High rated current for circuit design.
2. Design by special lead wire to prevent open circuit failure.
3. Low cost with rugged reliability and performance fixed inductor.

Application

Excellent as DC/DC converter boost or buck inductor.
Also used for filtering application.

Product Identification

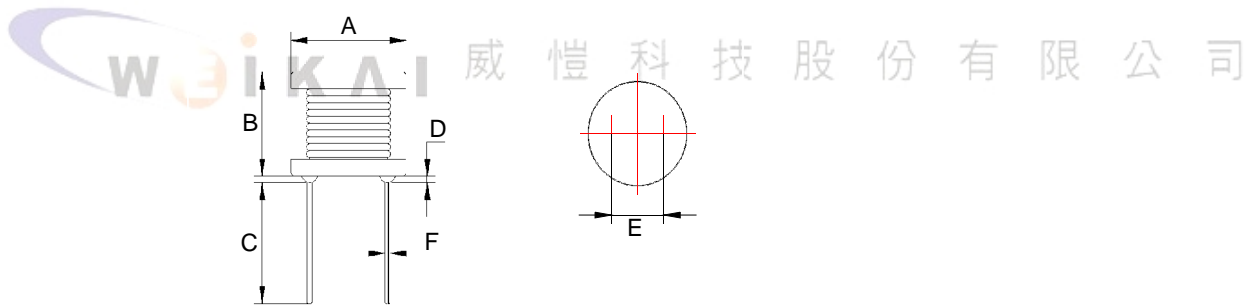
DRO0406- 2R2

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1. Series name.
2. Inductance. (See Details)

Configurations & Dimensions



Series Name	A	B	C	D	E	F
DRO0406	6.0(MAX)	7.5(MAX)	3.5(MIN)	2.0(MAX)	2.0±0.5	0.5(REF)
DRO0608	8.0(MAX)	9.5(MAX)	3.5(MIN)	2.0(MAX)	3.0±0.5	0.65(REF)
DRO0810	10.0(MAX)	11.5(MAX)	3.5(MIN)	2.5(MAX)	5.0±0.5	0.65 / 0.80(REF)
DRO0912	11.0(MAX)	13.5(MAX)	3.5(MIN)	3.0(MAX)	5.0±0.5	0.65 / 0.80(REF)
DRO1012	12.0(MAX)	13.5(MAX)	3.5(MIN)	3.0(MAX)	6.0±0.5	0.8(REF)
DRO1016	12.5(MAX)	18.0(MAX)	3.5(MIN)	3.0(MAX)	6.0±0.5	0.8(REF)

Unit: mm

Electrical Characteristics / DRO 0406

Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m)	Rated Current Max. (mA)
DRO 0406-1R0 _____	1.0	1.0 / 1.0K	30	3,000
DRO 0406-1R5 _____	1.5	1.0 / 1.0K	35	2,800
DRO 0406-1R8 _____	1.8	1.0 / 1.0K	40	2,700
DRO 0406-2R2 _____	2.2	1.0 / 1.0K	45	2,500
DRO 0406-2R7 _____	2.7	1.0 / 1.0K	50	2,500
DRO 0406-3R3 _____	3.3	1.0 / 1.0K	55	2,200
DRO 0406-3R9 _____	3.9	1.0 / 1.0K	55	2,200
DRO 0406-4R7 _____	4.7	1.0 / 1.0K	65	2,000
DRO 0406-5R6 _____	5.6	1.0 / 1.0K	70	1,800
DRO 0406-6R8 _____	6.8	1.0 / 1.0K	80	1,700
DRO 0406-8R2 _____	8.2	1.0 / 1.0K	90	1,500
DRO 0406-100 _____	10.0	1.0 / 1.0K	110	1,400
DRO 0406-120 _____	12.0	1.0 / 1.0K	140	1,200
DRO 0406-150 _____	15.0	1.0 / 1.0K	160	1,000
DRO 0406-180 _____	18.0	1.0 / 1.0K	180	1,000
DRO 0406-220 _____	22.0	1.0 / 1.0K	250	900
DRO 0406-270 _____	27.0	1.0 / 1.0K	370	800
DRO 0406-330 _____	33.0	1.0 / 1.0K	420	700
DRO 0406-390 _____	39.0	1.0 / 1.0K	450	700
DRO 0406-470 _____	47.0	1.0 / 1.0K	500	600
DRO 0406-560 _____	56.0	1.0 / 1.0K	560	600
DRO 0406-680 _____	68.0	1.0 / 1.0K	630	550
DRO 0406-820 _____	82.0	1.0 / 1.0K	770	500
DRO 0406-101 _____	100.0	1.0 / 1.0K	850	400
DRO 0406-121 _____	120.0	1.0 / 1.0K	1,300	400
DRO 0406-151 _____	150.0	1.0 / 1.0K	1,400	300
DRO 0406-181 _____	180.0	1.0 / 1.0K	2,200	300
DRO 0406-221 _____	220.0	1.0 / 1.0K	2,500	280
DRO 0406-271 _____	270.0	1.0 / 1.0K	2,700	250
DRO 0406-331 _____	330.0	1.0 / 1.0K	3,000	220
DRO 0406-391 _____	390.0	1.0 / 1.0K	3,400	210
DRO 0406-471 _____	470.0	1.0 / 1.0K	3,900	200
DRO 0406-561 _____	560.0	1.0 / 1.0K	5,000	160
DRO 0406-681 _____	680.0	1.0 / 1.0K	7,000	150
DRO 0406-821 _____	820.0	1.0 / 1.0K	7,700	140
DRO 0406-102 _____	1000.0	1.0 / 1.0K	8,700	120

※ Rated current that will cause initial inductance value approximately 10% rolloff or temperature rise approximate 40°C without core loss.

Electrical Characteristics / DRO 0608

Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m)	Rated Current Max. (mA)
DRO 0608-1R0 _	1.0	1.0 / 1.0K	15	3,000
DRO 0608-1R5 _	1.5	1.0 / 1.0K	15	2,800
DRO 0608-1R8 _	1.8	1.0 / 1.0K	15	2,700
DRO 0608-2R2 _	2.2	1.0 / 1.0K	15	2,600
DRO 0608-2R7 _	2.7	1.0 / 1.0K	20	2,500
DRO 0608-3R3 _	3.3	1.0 / 1.0K	20	2,500
DRO 0608-3R9 _	3.9	1.0 / 1.0K	25	2,500
DRO 0608-4R7 _	4.7	1.0 / 1.0K	25	2,300
DRO 0608-5R6 _	5.6	1.0 / 1.0K	30	2,100
DRO 0608-6R8 _	6.8	1.0 / 1.0K	30	1,800
DRO 0608-8R2 _	8.2	1.0 / 1.0K	35	1,200
DRO 0608-100 _	10.0	1.0 / 1.0K	45	1,000
DRO 0608-120 _	12.0	1.0 / 1.0K	50	1,000
DRO 0608-150 _	15.0	1.0 / 1.0K	55	900
DRO 0608-180 _	18.0	1.0 / 1.0K	90	900
DRO 0608-220 _	22.0	1.0 / 1.0K	95	800
DRO 0608-270 _	27.0	1.0 / 1.0K	110	750
DRO 0608-330 _	33.0	1.0 / 1.0K	125	700
DRO 0608-390 _	39.0	1.0 / 1.0K	140	650
DRO 0608-470 _	47.0	1.0 / 1.0K	160	600
DRO 0608-560 _	56.0	1.0 / 1.0K	180	600
DRO 0608-680 _	68.0	1.0 / 1.0K	200	560
DRO 0608-820 _	82.0	1.0 / 1.0K	270	480
DRO 0608-101 _	100.0	1.0 / 1.0K	310	450
DRO 0608-121 _	120.0	1.0 / 1.0K	370	430
DRO 0608-151 _	150.0	1.0 / 1.0K	470	400
DRO 0608-181 _	180.0	1.0 / 1.0K	540	400
DRO 0608-221 _	220.0	1.0 / 1.0K	730	380
DRO 0608-271 _	270.0	1.0 / 1.0K	830	320
DRO 0608-331 _	330.0	1.0 / 1.0K	950	300
DRO 0608-391 _	390.0	1.0 / 1.0K	1,220	250
DRO 0608-471 _	470.0	1.0 / 1.0K	1,630	220
DRO 0608-561 _	560.0	1.0 / 1.0K	1,800	200
DRO 0608-681 _	680.0	1.0 / 1.0K	2,100	180
DRO 0608-821 _	820.0	1.0 / 1.0K	2,900	170
DRO 0608-102 _	1000.0	1.0 / 1.0K	3,200	150

※ Rated current that will cause initial inductance value approximately 10% rolloff or temperature rise approximate 40°C without core loss.

Electrical Characteristics / DRO 0810

Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m)	Rated Current Max. (mA)
DRO 0810-1R0 _____	1.0	1.0 / 1.0K	15	4,500
DRO 0810-1R5 _____	1.5	1.0 / 1.0K	20	4,500
DRO 0810-2R2 _____	2.2	1.0 / 1.0K	20	4,200
DRO 0810-2R7 _____	2.7	1.0 / 1.0K	20	4,200
DRO 0810-3R3 _____	3.3	1.0 / 1.0K	20	4,000
DRO 0810-3R9 _____	3.9	1.0 / 1.0K	20	4,000
DRO 0810-4R7 _____	4.7	1.0 / 1.0K	25	4,000
DRO 0810-5R6 _____	5.6	1.0 / 1.0K	25	4,000
DRO 0810-6R8 _____	6.8	1.0 / 1.0K	25	4,000
DRO 0810-8R2 _____	8.2	1.0 / 1.0K	35	3,800
DRO 0810-100 _____	10.0	1.0 / 1.0K	40	3,800
DRO 0810-120 _____	12.0	1.0 / 1.0K	40	3,200
DRO 0810-150 _____	15.0	1.0 / 1.0K	45	2,800
DRO 0810-180 _____	18.0	1.0 / 1.0K	60	2,500
DRO 0810-220 _____	22.0	1.0 / 1.0K	70	2,100
DRO 0810-270 _____	27.0	1.0 / 1.0K	85	2,000
DRO 0810-330 _____	33.0	1.0 / 1.0K	90	1,800
DRO 0810-390 _____	39.0	1.0 / 1.0K	100	1,600
DRO 0810-470 _____	47.0	1.0 / 1.0K	110	1,500
DRO 0810-560 _____	56.0	1.0 / 1.0K	150	1,300
DRO 0810-680 _____	68.0	1.0 / 1.0K	190	1,000
DRO 0810-820 _____	82.0	1.0 / 1.0K	210	900
DRO 0810-101 _____	100.0	1.0 / 1.0K	240	800
DRO 0810-121 _____	120.0	1.0 / 1.0K	260	800
DRO 0810-151 _____	150.0	1.0 / 1.0K	310	750
DRO 0810-181 _____	180.0	1.0 / 1.0K	380	700
DRO 0810-221 _____	220.0	1.0 / 1.0K	430	650
DRO 0810-271 _____	270.0	1.0 / 1.0K	490	630
DRO 0810-331 _____	330.0	1.0 / 1.0K	660	600
DRO 0810-391 _____	390.0	1.0 / 1.0K	790	580
DRO 0810-471 _____	470.0	1.0 / 1.0K	910	520
DRO 0810-561 _____	560.0	1.0 / 1.0K	1,130	500
DRO 0810-681 _____	680.0	1.0 / 1.0K	1,300	400
DRO 0810-821 _____	820.0	1.0 / 1.0K	1,530	300
DRO 0810-102 _____	1000.0	1.0 / 1.0K	1,800	270

※ Rated current that will cause initial inductance value approximately 10% rolloff or temperature rise approximate 40°C without core loss.

Electrical Characteristics / DRO 0912

Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m)	Rated Current Max. (mA)
DRO 0912-1R0_	1.0	1.0 / 1.0K	15	5,000
DRO 0912-1R5_	1.5	1.0 / 1.0K	15	5,000
DRO 0912-2R2_	2.2	1.0 / 1.0K	15	5,000
DRO 0912-2R7_	2.7	1.0 / 1.0K	15	5,000
DRO 0912-3R3_	3.3	1.0 / 1.0K	20	4,800
DRO 0912-3R9_	3.9	1.0 / 1.0K	20	4,800
DRO 0912-4R7_	4.7	1.0 / 1.0K	20	4,500
DRO 0912-5R6_	5.6	1.0 / 1.0K	25	4,000
DRO 0912-6R8_	6.8	1.0 / 1.0K	25	3,900
DRO 0912-8R2_	8.2	1.0 / 1.0K	25	3,500
DRO 0912-100_	10.0	1.0 / 1.0K	30	3,400
DRO 0912-120_	12.0	1.0 / 1.0K	30	3,200
DRO 0912-150_	15.0	1.0 / 1.0K	40	3,000
DRO 0912-180_	18.0	1.0 / 1.0K	45	2,800
DRO 0912-220_	22.0	1.0 / 1.0K	50	2,700
DRO 0912-270_	27.0	1.0 / 1.0K	55	2,500
DRO 0912-330_	33.0	1.0 / 1.0K	55	2,500
DRO 0912-390_	39.0	1.0 / 1.0K	60	2,000
DRO 0912-470_	47.0	1.0 / 1.0K	70	1,800
DRO 0912-560_	56.0	1.0 / 1.0K	80	1,700
DRO 0912-680_	68.0	1.0 / 1.0K	90	1,500
DRO 0912-820_	82.0	1.0 / 1.0K	110	1,400
DRO 0912-101_	100.0	1.0 / 1.0K	160	1,200
DRO 0912-121_	120.0	1.0 / 1.0K	170	1,100
DRO 0912-151_	150.0	1.0 / 1.0K	200	1,000
DRO 0912-181_	180.0	1.0 / 1.0K	220	900
DRO 0912-221_	220.0	1.0 / 1.0K	260	800
DRO 0912-271_	270.0	1.0 / 1.0K	390	700
DRO 0912-331_	330.0	1.0 / 1.0K	450	500
DRO 0912-391_	390.0	1.0 / 1.0K	490	450
DRO 0912-471_	470.0	1.0 / 1.0K	620	430
DRO 0912-561_	560.0	1.0 / 1.0K	640	400
DRO 0912-681_	680.0	1.0 / 1.0K	790	380
DRO 0912-821_	820.0	1.0 / 1.0K	1,340	350
DRO 0912-102_	1000.0	1.0 / 1.0K	1,820	300

※ Rated current that will cause initial inductance value approximately 10% rolloff or temperature rise approximate 40°C without core loss.

Electrical Characteristics / DRO 1012

Part Number	Inductance (μH)	Test Condition (Volt / Hz)	DC Resistance Max. (m)	Rated Current Max. (mA)
DRO 1012-1R0 _____	1.0	1.0 / 1.0K	10	6,000
DRO 1012-1R5 _____	1.5	1.0 / 1.0K	10	6,000
DRO 1012-1R8 _____	1.8	1.0 / 1.0K	15	6,000
DRO 1012-2R7 _____	2.7	1.0 / 1.0K	15	5,500
DRO 1012-3R3 _____	3.3	1.0 / 1.0K	15	5,500
DRO 1012-3R9 _____	3.9	1.0 / 1.0K	20	5,000
DRO 1012-4R7 _____	4.7	1.0 / 1.0K	20	5,000
DRO 1012-5R6 _____	5.6	1.0 / 1.0K	25	4,800
DRO 1012-6R8 _____	6.8	1.0 / 1.0K	25	4,800
DRO 1012-8R2 _____	8.2	1.0 / 1.0K	25	4,500
DRO 1012-100 _____	10.0	1.0 / 1.0K	25	4,500
DRO 1012-120 _____	12.0	1.0 / 1.0K	25	4,300
DRO 1012-150 _____	15.0	1.0 / 1.0K	35	4,300
DRO 1012-180 _____	18.0	1.0 / 1.0K	40	4,000
DRO 1012-220 _____	22.0	1.0 / 1.0K	45	3,700
DRO 1012-270 _____	27.0	1.0 / 1.0K	45	3,500
DRO 1012-330 _____	33.0	1.0 / 1.0K	55	3,000
DRO 1012-390 _____	39.0	1.0 / 1.0K	60	2,500
DRO 1012-470 _____	47.0	1.0 / 1.0K	80	2,300
DRO 1012-560 _____	56.0	1.0 / 1.0K	85	2,000
DRO 1012-680 _____	68.0	1.0 / 1.0K	95	2,000
DRO 1012-820 _____	82.0	1.0 / 1.0K	110	1,800
DRO 1012-101 _____	100.0	1.0 / 1.0K	140	1,700
DRO 1012-121 _____	120.0	1.0 / 1.0K	160	1,500
DRO 1012-151 _____	150.0	1.0 / 1.0K	180	1,400
DRO 1012-181 _____	180.0	1.0 / 1.0K	250	1,300
DRO 1012-221 _____	220.0	1.0 / 1.0K	280	1,000
DRO 1012-271 _____	270.0	1.0 / 1.0K	420	900
DRO 1012-331 _____	330.0	1.0 / 1.0K	540	800
DRO 1012-391 _____	390.0	1.0 / 1.0K	600	800
DRO 1012-471 _____	470.0	1.0 / 1.0K	660	700
DRO 1012-561 _____	560.0	1.0 / 1.0K	740	600
DRO 1012-681 _____	680.0	1.0 / 1.0K	840	500
DRO 1012-821 _____	820.0	1.0 / 1.0K	1,080	500
DRO 1012-102 _____	1000.0	1.0 / 1.0K	1,390	500

Electrical Characteristics / DRO 1016

Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m)	Rated Current Max. (mA)
DRO 1016-1R0 _	1.0	1.0 / 1.0K	10	9,000
DRO 1016-1R5 _	1.5	1.0 / 1.0K	15	9,000
DRO 1016-1R8 _	1.8	1.0 / 1.0K	15	9,000
DRO 1016-2R7 _	2.7	1.0 / 1.0K	15	9,000
DRO 1016-3R3 _	3.3	1.0 / 1.0K	15	8,500
DRO 1016-3R9 _	3.9	1.0 / 1.0K	15	8,000
DRO 1016-4R7 _	4.7	1.0 / 1.0K	20	7,500
DRO 1016-5R6 _	5.6	1.0 / 1.0K	25	7,500
DRO 1016-6R8 _	6.8	1.0 / 1.0K	25	7,500
DRO 1016-8R2 _	8.2	1.0 / 1.0K	25	7,200
DRO 1016-100 _	10.0	1.0 / 1.0K	30	7,200
DRO 1016-120 _	12.0	1.0 / 1.0K	30	7,000
DRO 1016-150 _	15.0	1.0 / 1.0K	35	6,500
DRO 1016-180 _	18.0	1.0 / 1.0K	35	6,300
DRO 1016-220 _	22.0	1.0 / 1.0K	45	5,500
DRO 1016-270 _	27.0	1.0 / 1.0K	50	4,500
DRO 1016-330 _	33.0	1.0 / 1.0K	70	4,000
DRO 1016-390 _	39.0	1.0 / 1.0K	70	3,800
DRO 1016-470 _	47.0	1.0 / 1.0K	70	3,600
DRO 1016-560 _	56.0	1.0 / 1.0K	80	3,200
DRO 1016-680 _	68.0	1.0 / 1.0K	90	3,000
DRO 1016-820 _	82.0	1.0 / 1.0K	95	2,600
DRO 1016-101 _	100.0	1.0 / 1.0K	120	2,500
DRO 1016-121 _	120.0	1.0 / 1.0K	140	2,300
DRO 1016-151 _	150.0	1.0 / 1.0K	170	2,100
DRO 1016-181 _	180.0	1.0 / 1.0K	190	2,000
DRO 1016-221 _	220.0	1.0 / 1.0K	250	1,800
DRO 1016-271 _	270.0	1.0 / 1.0K	340	1,500
DRO 1016-331 _	330.0	1.0 / 1.0K	450	1,500
DRO 1016-391 _	390.0	1.0 / 1.0K	510	1,300
DRO 1016-471 _	470.0	1.0 / 1.0K	560	1,200
DRO 1016-561 _	560.0	1.0 / 1.0K	640	1,000
DRO 1016-681 _	680.0	1.0 / 1.0K	710	1,000
DRO 1016-821 _	820.0	1.0 / 1.0K	1,010	900
DRO 1016-102 _	1000.0	1.0 / 1.0K	1,200	800

※ Rated current that will cause initial inductance value approximately 10% rolloff or temperature rise approximate 40°C