

PRODUCT IDENTIFICATION

1. Scope

This specification applies to FTK series of wire wound SMD type power inductors

2. Product Description and Identification (Part Number)

Description

Wire Wound SMD Type Power Inductor, FTKA, $XX \mu\text{H} \pm X\%$ @XXX KHz/XXXV, $XXX \Omega$, $XXX\text{m A}$



PRODUCT IDENTIFICATION

FTK A 1204 -1R0 N T
① ② ③ ④ ⑤ ⑥

① Type	
FTK	Wire Wound SMD Type Power Inductors (With Plastic Base)

③ External Dimensions	
1204~1207	

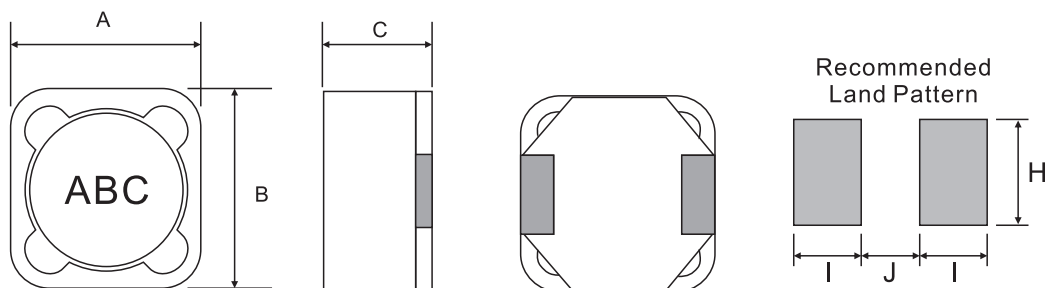
⑤ Inductance Tolerance	
M	$\pm 20\%$
N	$\pm 30\%$

② Configuration	
A	A Type Base

④ Nominal Inductance	
Example	Nominal Value
1R0	1.0 μH
100	10 μH
101	100 μH

⑥ Packing	
T	Tape Carrier Package

SHAPE AND DIMENSIONS



Unit: mm

Series	A max.	B max.	C max.	I typ.	J typ.	H typ.
FTKA1204	12.5	12.5	5.0	2.9	7.0	5.4
FTKA1205	12.5	12.5	6.0	2.9	7.0	5.4
FTKA1207	12.5	12.5	8.0	2.9	7.0	5.4

SPECIFICATIONS

FTKA1204 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
FTKA1204-1R0NT	1.0 \pm 30%	100k, 0.3V	0.010	7.00
FTKA1204-2R2NT	2.2 \pm 30%	100k, 0.3V	0.014	5.70
FTKA1204-3R3NT	3.3 \pm 30%	100k, 0.3V	0.015	5.20
FTKA1204-4R7NT	4.7 \pm 30%	100k, 0.3V	0.018	4.90
FTKA1204-5R6NT	5.6 \pm 30%	100k, 0.3V	0.020	4.50
FTKA1204-6R8NT	6.8 \pm 30%	100k, 0.3V	0.023	4.20
FTKA1204-8R2NT	8.2 \pm 30%	100k, 0.3V	0.026	4.00
FTKA1204-100MT	10 \pm 20%	1k, 0.3V	0.028	3.80
FTKA1204-120MT	12 \pm 20%	1k, 0.3V	0.038	3.50
FTKA1204-150MT	15 \pm 20%	1k, 0.3V	0.050	3.20
FTKA1204-180MT	18 \pm 20%	1k, 0.3V	0.057	3.10
FTKA1204-220MT	22 \pm 20%	1k, 0.3V	0.066	2.90
FTKA1204-270MT	27 \pm 20%	1k, 0.3V	0.080	2.80
FTKA1204-330MT	33 \pm 20%	1k, 0.3V	0.097	2.70
FTKA1204-390MT	39 \pm 20%	1k, 0.3V	0.132	2.10
FTKA1204-470MT	47 \pm 20%	1k, 0.3V	0.160	1.90
FTKA1204-560MT	56 \pm 20%	1k, 0.3V	0.190	1.80
FTKA1204-680MT	68 \pm 20%	1k, 0.3V	0.220	1.50
FTKA1204-820MT	82 \pm 20%	1k, 0.3V	0.260	1.30
FTKA1204-101MT	100 \pm 20%	1k, 0.3V	0.310	1.20
FTKA1204-121MT	120 \pm 20%	1k, 0.3V	0.380	1.10
FTKA1204-151MT	150 \pm 20%	1k, 0.3V	0.530	0.95
FTKA1204-181MT	180 \pm 20%	1k, 0.3V	0.620	0.85
FTKA1204-221MT	220 \pm 20%	1k, 0.3V	0.700	0.80
FTKA1204-271MT	270 \pm 20%	1k, 0.3V	0.870	0.60
FTKA1204-331MT	330 \pm 20%	1k, 0.3V	0.990	0.50

FTKA1205 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
FTKA1205-1R0NT	1.0 \pm 30%	100k, 0.3V	0.010	8.00
FTKA1205-2R2NT	2.2 \pm 30%	100k, 0.3V	0.014	7.80
FTKA1205-2R4NT	2.4 \pm 30%	100k, 0.3V	0.014	7.80
FTKA1205-3R3NT	3.3 \pm 30%	100k, 0.3V	0.018	6.00
FTKA1205-5R6NT	5.6 \pm 30%	100k, 0.3V	0.020	5.20
FTKA1205-6R8NT	6.8 \pm 30%	100k, 0.3V	0.020	4.70
FTKA1205-8R2NT	8.2 \pm 30%	100k, 0.3V	0.021	4.40
FTKA1205-100MT	10 \pm 20%	1k, 0.3V	0.025	4.00
FTKA1205-120MT	12 \pm 20%	1k, 0.3V	0.027	3.50
FTKA1205-150MT	15 \pm 20%	1k, 0.3V	0.030	3.30
FTKA1205-180MT	18 \pm 20%	1k, 0.3V	0.034	3.00
FTKA1205-220MT	22 \pm 20%	1k, 0.3V	0.036	2.80
FTKA1205-270MT	27 \pm 20%	1k, 0.3V	0.051	2.30
FTKA1205-330MT	33 \pm 20%	1k, 0.3V	0.057	2.10
FTKA1205-390MT	39 \pm 20%	1k, 0.3V	0.068	2.00
FTKA1205-470MT	47 \pm 20%	1k, 0.3V	0.075	1.80
FTKA1205-560MT	56 \pm 20%	1k, 0.3V	0.110	1.70
FTKA1205-680MT	68 \pm 20%	1k, 0.3V	0.120	1.50
FTKA1205-820MT	82 \pm 20%	1k, 0.3V	0.140	1.40
FTKA1205-101MT	100 \pm 20%	1k, 0.3V	0.160	1.30
FTKA1205-121MT	120 \pm 20%	1k, 0.3V	0.170	1.10

SPECIFICATIONS

FTKA1205 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I_r
FTKA1205-151MT	150 \pm 20%	1k, 0.3V	0.230	1.00
FTKA1205-181MT	180 \pm 20%	1k, 0.3V	0.290	0.90
FTKA1205-221MT	220 \pm 20%	1k, 0.3V	0.400	0.80
FTKA1205-271MT	270 \pm 20%	1k, 0.3V	0.460	0.75
FTKA1205-331MT	330 \pm 20%	1k, 0.3V	0.510	0.68
FTKA1205-391MT	390 \pm 20%	1k, 0.3V	0.690	0.65
FTKA1205-471MT	470 \pm 20%	1k, 0.3V	0.770	0.58
FTKA1205-561MT	560 \pm 20%	1k, 0.3V	0.860	0.54
FTKA1205-681MT	680 \pm 20%	1k, 0.3V	1.200	0.48

FTKA1207 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I_r
FTKA1207-1R0NT	1.0 \pm 30%	100k, 0.3V	0.009	10.00
FTKA1207-2R2NT	2.2 \pm 30%	100k, 0.3V	0.012	8.00
FTKA1207-3R3NT	3.3 \pm 30%	100k, 0.3V	0.013	7.00
FTKA1207-4R7NT	4.7 \pm 30%	100k, 0.3V	0.016	6.80
FTKA1207-5R6NT	5.6 \pm 30%	100k, 0.3V	0.018	6.70
FTKA1207-6R8NT	6.8 \pm 30%	100k, 0.3V	0.019	6.60
FTKA1207-8R2NT	8.2 \pm 30%	100k, 0.3V	0.020	5.60
FTKA1207-100MT	10 \pm 20%	1k, 0.3V	0.021	5.40
FTKA1207-120MT	12 \pm 20%	1k, 0.3V	0.024	4.90
FTKA1207-150MT	15 \pm 20%	1k, 0.3V	0.027	4.50
FTKA1207-180MT	18 \pm 20%	1k, 0.3V	0.039	3.90
FTKA1207-220MT	22 \pm 20%	1k, 0.3V	0.043	3.60
FTKA1207-270MT	27 \pm 20%	1k, 0.3V	0.046	3.40
FTKA1207-330MT	33 \pm 20%	1k, 0.3V	0.065	3.00
FTKA1207-390MT	39 \pm 20%	1k, 0.3V	0.073	2.75
FTKA1207-470MT	47 \pm 20%	1k, 0.3V	0.100	2.50
FTKA1207-560MT	56 \pm 20%	1k, 0.3V	0.110	2.35
FTKA1207-680MT	68 \pm 20%	1k, 0.3V	0.140	2.10
FTKA1207-820MT	82 \pm 20%	1k, 0.3V	0.160	1.95
FTKA1207-101MT	100 \pm 20%	1k, 0.3V	0.220	1.70
FTKA1207-121MT	120 \pm 20%	1k, 0.3V	0.250	1.60
FTKA1207-151MT	150 \pm 20%	1k, 0.3V	0.280	1.42
FTKA1207-181MT	180 \pm 20%	1k, 0.3V	0.350	1.30
FTKA1207-221MT	220 \pm 20%	1k, 0.3V	0.390	1.16
FTKA1207-271MT	270 \pm 20%	1k, 0.3V	0.560	1.06
FTKA1207-331MT	330 \pm 20%	1k, 0.3V	0.640	0.95
FTKA1207-391MT	390 \pm 20%	1k, 0.3V	0.700	0.88
FTKA1207-471MT	470 \pm 20%	1k, 0.3V	0.980	0.79
FTKA1207-561MT	560 \pm 20%	1k, 0.3V	1.070	0.73
FTKA1207-681MT	680 \pm 20%	1k, 0.3V	1.460	0.67
FTKA1207-821MT	820 \pm 20%	1k, 0.3V	1.640	0.60
FTKA1207-102MT	1000 \pm 20%	1k, 0.3V	1.820	0.55

※1: All test data is referenced to 20°C ambient;

※2: The maximum rated current is a DC current which causes initial inductance to decrease by 25% or temperature to rise by 40°C, which is smaller(at ambient reference temperature: 20°C)