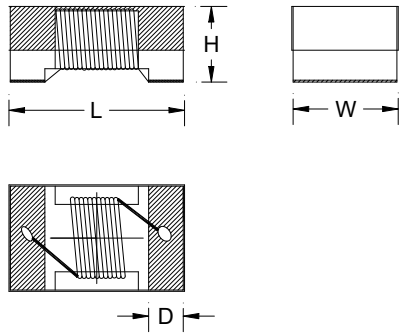
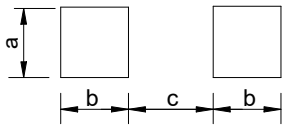
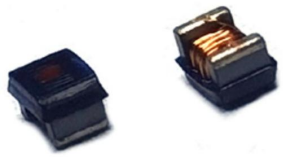
Dimensions(mm)



Recommended Patterns





Type	L	W	H	D	a	b	c	Packaging (pcs/reel)
KTW0603UF	1.80 Max.	1.25 Max.	1.25 Max.	0.30	1.02	0.64	0.64	4000
KTW0805UF	2.30 Max.	1.70 Max.	1.52 Max.	0.50	1.78	1.02	0.76	3000
KTW1008IF	2.92 Max.	2.79 Max.	2.10 Max.	0.50	2.54	1.02	1.27	2000
KTW1210IF	3.50 Max.	2.90 Max.	2.25 Max.	0.50	2.54	1.02	1.78	2000
KTW1812IF	4.80 Max.	3.40 Max.	3.15 Max.	0.65	3.05	1.14	3.00	2000

Dimensions without tolerance are typical.

Product Identification

KTW 0603 UF 1N0 □ S C

① ② ③ ④ ⑤ ⑥ ⑦

① Wire Wound Inductor Series ;
② Dimensions：0603(inch)=1608(mm)=1.6x0.8mm
③ Material：UF Ferrite core ;
④ Inductance：1N0=1.0nH,010=10nH,R10=100nH,1R0=1.0μH,100=10μH,101=100uH,102=1.0mH
⑤ Tolerance：K=±10%,M=±20%
⑥ Terminal：S(Tin)
⑦ Packaging type：C=Tape& Reel, B=Bulk

KTW0603UF Electrical Characteristics

Part Number	Tolerance	Inductance (uH) ①	Inductance Test Conditions	Q value min.	Q value Test frequency (MHz)	DCR(Ω) max. ②	Rated current (mA) ③	SRF(MHz) min.
KTW0603UF047□SC	J、K	0.047	7.9MHz/0.5V	12	7.9	0.10	1000	1500
KTW0603UF072□SC	J、K	0.072	7.9MHz/0.5V	12	7.9	0.12	1000	1400
KTW0603UF082□SC	J、K	0.082	7.9MHz/0.5V	12	7.9	0.10	1000	1300
KTW0603UFR10□SC	J、K	0.10	7.9MHz/0.5V	12	7.9	0.13	1000	1150
KTW0603UFR12□SC	J、K	0.12	7.9MHz/0.5V	12	7.9	0.16	1000	1100
KTW0603UFR15□SC	J、K	0.15	7.9MHz/0.5V	12	7.9	0.15	1000	1050
KTW0603UFR18□SC	J、K	0.18	7.9MHz/0.5V	12	7.9	0.18	1000	950
KTW0603UFR22□SC	J、K	0.22	7.9MHz/0.5V	12	7.9	0.20	900	900
KTW0603UFR24□SC	J、K	0.24	7.9MHz/0.5V	12	7.9	0.28	850	800
KTW0603UFR27□SC	J、K	0.27	7.9MHz/0.5V	12	7.9	0.30	700	775
KTW0603UFR33□SC	J、K	0.33	7.9MHz/0.5V	12	7.9	0.32	600	725
KTW0603UFR39□SC	J、K	0.39	7.9MHz/0.5V	12	7.9	0.51	500	620
KTW0603UFR47□SC	J、K	0.47	7.9MHz/0.5V	12	7.9	0.62	420	540
KTW0603UFR56□SC	J、K	0.56	7.9MHz/0.5V	12	7.9	0.65	400	600
KTW0603UFR68□SC	J、K	0.68	7.9MHz/0.5V	12	7.9	1.0	380	500
KTW0603UFR78□SC	J、K	0.78	7.9MHz/0.5V	12	7.9	1.3	370	450
KTW0603UFR82□SC	J、K	0.82	7.9MHz/0.5V	12	7.9	1.3	350	500
KTW0603UF1R0□SC	J、K	1.0	7.9MHz/0.5V	12	7.9	1.5	330	400
KTW0603UF1R2□SC	J、K	1.2	7.9MHz/0.5V	12	7.9	1.7	320	380
KTW0603UF1R5□SC	J、K	1.5	7.9MHz/0.5V	12	7.9	1.9	310	300
KTW0603UF1R8□SC	J、K	1.8	7.9MHz/0.5V	12	7.9	2.2	300	180
KTW0603UF2R2□SC	J、K	2.2	7.9MHz/0.5V	12	7.9	2.3	280	180
KTW0603UF2R7□SC	J、K	2.7	7.9MHz/0.5V	12	7.9	3.1	250	150
KTW0603UF3R3□SC	J、K	3.3	7.9MHz/0.5V	12	7.9	2.9	230	150
KTW0603UF3R9□SC	J、K	3.9	7.9MHz/0.5V	12	7.9	3.2	210	120
KTW0603UF4R7□SC	J、K	4.7	7.9MHz/0.5V	12	7.9	4.0	200	100
KTW0603UF5R6□SC	J、K	5.6	7.9MHz/0.5V	12	7.9	2.6	240	32
KTW0603UF6R8□SC	J、K	6.8	7.9MHz/0.5V	12	7.9	3.9	200	31
KTW0603UF8R2□SC	J、K	8.2	7.9MHz/0.5V	12	7.9	4.2	190	26
KTW0603UF100□SC	J、K	10	2.5MHz/0.5V	10	2.5	4.8	180	25
KTW0603UF150□SC	J、K	15	2.5MHz/0.5V	10	2.5	8.5	170	23
KTW0603UF180□SC	J、K	18	2.5MHz/0.5V	10	2.5	10	160	22
KTW0603UF220□SC	J、K	22	2.5MHz/0.5V	10	2.5	12	100	10

KTW0805UF Electrical Characteristics

Part Number	Tolerance	Inductance (uH) ①	Inductance Test Conditions	Q value min.	Q value Test frequency (MHz)	DCR(Ω) max. ②	Rated current (mA) ③	SRF(MHz) min.
KTW0805UFR33□SC	J、K	0.33	25.2MHz/0.5V	15	25.2	0.40	500	500
KTW0805UFR56□SC	J、K	0.56	25.2MHz/0.5V	10	25.2	0.40	500	450
KTW0805UFR68□SC	J、K	0.68	25.2MHz/0.5V	10	25.2	0.60	500	400
KTW0805UFR82□SC	J、K	0.82	25.2MHz/0.5V	10	25.2	0.80	500	400
KTW0805UF1R0□SC	J、K	1.0	7.96MHz/0.5V	10	7.96	1.00	430	360
KTW0805UF1R2□SC	J、K	1.2	7.96MHz/0.5V	10	7.96	1.15	410	350
KTW0805UF1R5□SC	J、K	1.5	7.96MHz/0.5V	10	7.96	1.20	400	300
KTW0805UF1R8□SC	J、K	1.8	7.96MHz/0.5V	10	7.96	1.35	380	200

KTW0805UF Electrical Characteristics

Part Number	Tolerance	Inductance (uH) ①	Inductance Test Conditions	Q value min.	Q value Test frequency (MHz)	DCR (Ω) max. ②	Rated current (mA) ③	SRF(MHz) min.
KTW0805UF2R0□SC	J、K	2.0	7.96MHz/0.5V	12	7.96	1.45	350	200
KTW0805UF2R2□SC	J、K	2.2	7.96MHz/0.5V	10	7.96	1.50	350	170
KTW0805UF2R4□SC	J、K	2.4	7.96MHz/0.5V	10	7.96	1.60	330	145
KTW0805UF2R7□SC	J、K	2.7	7.96MHz/0.5V	10	7.96	1.70	320	100
KTW0805UF3R0□SC	J、K	3.0	7.96MHz/0.5V	10	7.96	1.80	300	100
KTW0805UF3R3□SC	J、K	3.3	7.96MHz/0.5V	10	7.96	1.80	300	90
KTW0805UF3R9□SC	J、K	3.9	7.96MHz/0.5V	10	7.96	1.95	280	90
KTW0805UF4R3□SC	J、K	4.3	7.96MHz/0.5V	10	7.96	2.00	270	85
KTW0805UF4R7□SC	J、K	4.7	7.96MHz/0.5V	10	7.96	2.05	250	85
KTW0805UF5R1□SC	J、K	5.1	7.96MHz/0.5V	10	7.96	2.20	240	60
KTW0805UF5R6□SC	J、K	5.6	7.96MHz/0.5V	10	7.96	2.30	240	70
KTW0805UF6R8□SC	J、K	6.8	7.96MHz/0.5V	10	7.96	2.60	220	55
KTW0805UF7R5□SC	J、K	7.5	7.96MHz/0.5V	10	7.96	2.80	210	55
KTW0805UF8R2□SC	J、K	8.2	7.96MHz/0.5V	10	7.96	3.00	180	50
KTW0805UF100□SC	J、K	10	2.52MHz/0.5V	8	2.52	3.20	150	30
KTW0805UF120□SC	J、K	12	2.52MHz/0.5V	8	2.52	3.50	110	17
KTW0805UF150□SC	J、K	15	2.52MHz/0.5V	8	2.52	4.20	100	16
KTW0805UF180□SC	J、K	18	2.52MHz/0.5V	8	2.52	4.50	95	15
KTW0805UF220□SC	J、K	22	2.52MHz/0.5V	8	2.52	6.00	80	14

KTW1008IF Electrical Characteristics

Part Number	Tolerance	Inductance (uH) ①	Inductance Test Conditions	Q value min.	Q value Test frequency (MHz)	DCR(Ω) max. ②	Rated current (mA) ③	SRF(MHz) min.
KTW1008IFR12□SC	J、K	0.12	25.2MHz/0.5V	12	25.2	0.15	800	850
KTW1008IFR39□SC	J、K	0.39	25.2MHz/0.5V	12	25.2	0.29	600	480
KTW1008IFR56□SC	J、K	0.56	25.2MHz/0.5V	12	25.2	0.42	600	330
KTW1008IFR68□SC	J、K	0.68	25.2MHz/0.5V	12	25.2	0.45	600	330
KTW1008IFR82□SC	J、K	0.82	25.2MHz/0.5V	12	25.2	0.62	600	300
KTW1008IF1R0□SC	J、K	1.0	25.2MHz/0.5V	12	25.2	0.55	580	300
KTW1008IF1R2□SC	J、K	1.2	7.96MHz/0.5V	12	7.96	0.75	550	250
KTW1008IF1R5□SC	J、K	1.5	7.96MHz/0.5V	12	7.96	0.85	400	230
KTW1008IF1R8□SC	J、K	1.8	7.96MHz/0.5V	12	7.96	0.95	320	168
KTW1008IF2R2□SC	J、K	2.2	7.96MHz/0.5V	12	7.96	1.30	315	150
KTW1008IF2R7□SC	J、K	2.7	7.96MHz/0.5V	12	7.96	1.40	300	100
KTW1008IF3R3□SC	J、K	3.3	7.96MHz/0.5V	12	7.96	1.50	280	80
KTW1008IF3R9□SC	J、K	3.9	7.96MHz/0.5V	12	7.96	1.55	250	60
KTW1008IF4R7□SC	J、K	4.7	7.96MHz/0.5V	12	7.96	1.75	210	50
KTW1008IF5R1□SC	J、K	5.1	7.96MHz/0.5V	12	7.96	1.80	200	45
KTW1008IF5R6□SC	J、K	5.6	7.96MHz/0.5V	12	7.96	1.90	190	40
KTW1008IF6R8□SC	J、K	6.8	7.96MHz/0.5V	12	7.96	2.00	175	35
KTW1008IF7R5□SC	J、K	7.5	7.96MHz/0.5V	12	7.96	2.10	170	30
KTW1008IF8R2□SC	J、K	8.2	7.96MHz/0.5V	12	7.96	2.20	160	25
KTW1008IF100□SC	J、K	10	2.52MHz/0.5V	10	2.52	2.50	155	25
KTW1008IF120□SC	J、K	12	2.52MHz/0.5V	10	2.52	2.60	145	20
KTW1008IF150□SC	J、K	15	2.52MHz/0.5V	10	2.52	3.00	130	20

All specifications are subject to change without notice.

KTW1008IF Electrical Characteristics

Part Number	Tolerance	Inductance (uH) ①	Inductance Test Conditions	Q value min.	Q value Test frequency (MHz)	DCR(Ω) max. ②	Rated current (mA) ③	SRF(MHz) min.
KTW1008IF180□SC	J、K	18	2.52MHz/0.5V	10	2.52	3.00	130	20
KTW1008IF220□SC	J、K	22	2.52MHz/0.5V	10	2.52	3.90	105	18
KTW1008IF270□SC	J、K	27	2.52MHz/0.5V	10	2.52	4.00	100	10
KTW1008IF330□SC	J、K	33	2.52MHz/0.5V	10	2.52	4.80	85	8
KTW1008IF390□SC	J、K	39	2.52MHz/0.5V	10	2.52	5.00	80	7
KTW1008IF470□SC	J、K	47	2.52MHz/0.5V	10	2.52	5.70	60	7
KTW1008IF560□SC	J、K	56	2.52MHz/0.5V	10	2.52	6.00	55	6.5
KTW1008IF680□SC	J、K	68	2.52MHz/0.5V	10	2.52	6.70	50	6.5
KTW1008IF820□SC	J、K	82	2.52MHz/0.5V	10	2.52	7.50	45	6.5
KTW1008IF101□SC	J、K	100	0.796MHz/0.5V	8	0.796	11.0	40	4.5
KTW1008IF121□SC	J、K	120	0.796MHz/0.5V	8	0.796	13.0	30	3
KTW1008IF151□SC	J、K	150	0.796MHz/0.5V	8	0.796	15.0	25	3
KTW1008IF221□SC	K	220	0.796MHz/0.5V	8	0.796	18.0	20	2.5

KTW1210IF Electrical Characteristics

Part Number	Tolerance	Inductance (uH) ①	Inductance Test Conditions	Q value min.	Q value Test frequency (MHz)	DCR (Ω) max②.	Rated current (mA) ③	SRF(MHz) min.
KTW1210IFR12□SC	J、K	0.12	25.2MHz/0.5V	20	25.2	0.20	450	850
KTW1210IFR27□SC	J、K	0.27	25.2MHz/0.5V	20	25.2	0.20	450	700
KTW1210IFR33□SC	J、K	0.33	25.2MHz/0.5V	20	25.2	0.30	450	520
KTW1210IFR47□SC	J、K	0.47	25.2MHz/0.5V	20	25.2	0.30	450	480
KTW1210IFR82□SC	J、K	0.82	25.2MHz/0.5V	20	25.2	0.30	450	350
KTW1210IF1R0□SC	J、K	1.0	7.96MHz/0.5V	12	7.96	0.30	450	220
KTW1210IF1R2□SC	J、K	1.2	7.96MHz/0.5V	12	7.96	0.30	450	210
KTW1210IF1R5□SC	J、K	1.5	7.96MHz/0.5V	12	7.96	0.40	450	200
KTW1210IF1R8□SC	J、K	1.8	7.96MHz/0.5V	12	7.96	0.50	450	195
KTW1210IF2R2□SC	J、K	2.2	7.96MHz/0.5V	12	7.96	0.60	450	175
KTW1210IF2R7□SC	J、K	2.7	7.96MHz/0.5V	12	7.96	0.70	420	120
KTW1210IF3R3□SC	J、K	3.3	7.96MHz/0.5V	12	7.96	1.10	380	80
KTW1210IF3R9□SC	J、K	3.9	7.96MHz/0.5V	12	7.96	1.20	360	75
KTW1210IF4R3□SC	J、K	4.3	7.96MHz/0.5V	12	7.96	1.20	360	70
KTW1210IF4R7□SC	J、K	4.7	7.96MHz/0.5V	12	7.96	1.30	350	60
KTW1210IF5R6□SC	J、K	5.6	7.96MHz/0.5V	12	7.96	2.00	320	50
KTW1210IF6R8□SC	J、K	6.8	7.96MHz/0.5V	12	7.96	1.50	310	35
KTW1210IF8R2□SC	J、K	8.2	7.96MHz/0.5V	12	7.96	1.60	305	35
KTW1210IF100□SC	J、K	10	2.52MHz/0.5V	10	2.52	1.00	300	30
KTW1210IF120□SC	J、K	12	2.52MHz/0.5V	10	2.52	1.20	265	25
KTW1210IF130□SC	J、K	13	2.52MHz/0.5V	10	2.52	1.20	250	22
KTW1210IF150□SC	J、K	15	2.52MHz/0.5V	10	2.52	2.00	225	22
KTW1210IF180□SC	J、K	18	2.52MHz/0.5V	10	2.52	2.10	210	22
KTW1210IF200□SC	J、K	20	2.52MHz/0.5V	10	2.52	2.40	200	20
KTW1210IF220□SC	J、K	22	2.52MHz/0.5V	10	2.52	2.40	200	20
KTW1210IF270□SC	J、K	27	2.52MHz/0.5V	10	2.52	2.70	180	18
KTW1210IF330□SC	J、K	33	2.52MHz/0.5V	10	2.52	2.90	160	15
KTW1210IF350□SC	J、K	35	2.52MHz/0.5V	10	2.52	4.20	145	16

All specifications are subject to change without notice.

KTW1210IF Electrical Characteristics

Part Number	Tolerance	Inductance (uH) ①	Inductance Test Conditions	Q value min.	Q value Test frequency (MHz)	DCR(Ω) max. ②	Rated current (mA) ③	SRF(MHz) min.
KTW1210IF390□SC	J、K	39	2.52MHz/0.5V	10	2.52	4.70	150	16
KTW1210IF470□SC	J、K	47	2.52MHz/0.5V	10	2.52	5.20	140	10
KTW1210IF560□SC	J、K	56	2.52MHz/0.5V	10	2.52	5.60	125	8.0
KTW1210IF680□SC	J、K	68	2.52MHz/0.5V	10	2.52	4.70	110	5.0
KTW1210IF750□SC	J、K	75	2.52MHz/0.5V	10	2.52	5.50	100	5.0
KTW1210IF820□SC	J、K	82	2.52MHz/0.5V	10	2.52	5.60	100	5.0
KTW1210IF880□SC	J、K	88	2.52MHz/0.5V	10	2.52	6.00	95	5.0
KTW1210IF101□SC	J、K	100	0.796MHz/0.5V	8	0.796	6.80	95	5.0
KTW1210IF121□SC	J、K	120	0.796MHz/0.5V	8	0.796	7.90	85	4.0
KTW1210IF151□SC	J、K	150	0.796MHz/0.5V	8	0.796	9.00	80	4.0
KTW1210IF161□SC	J、K	160	0.796MHz/0.5V	8	0.796	9.10	75	3.0
KTW1210IF181□SC	J、K	180	0.796MHz/0.5V	8	0.796	14.5	70	3.0
KTW1210IF201□SC	J、K	200	0.796MHz/0.5V	8	0.796	16.5	65	2.5
KTW1210IF221□SC	J、K	220	0.796MHz/0.5V	8	0.796	16.5	65	2.6
KTW1210IF271□SC	K	270	0.796MHz/0.5V	8	0.796	18.0	60	2.5
KTW1210IF301□SC	K	300	0.796MHz/0.5V	8	0.796	20.0	55	2.4
KTW1210IF331□SC	K	330	0.796MHz/0.5V	8	0.796	19.0	55	2.3
KTW1210IF391□SC	K	390	0.796MHz/0.5V	8	0.796	21.5	45	2.2
KTW1210IF471□SC	K	470	0.796MHz/0.5V	8	0.796	22.5	40	2.0
KTW1210IF561□SC	K	560	0.796MHz/0.5V	8	0.796	28.0	30	1.5

KTW1812IF Electrical Characteristics

Part Number	Tolerance	Inductance (uH) ①	Inductance Test Conditions	Q value min.	Q value Test frequency (MHz)	DCR(Ω) max. ②	Rated current (mA) ③	SRF(MHz) min.
KTW1812IFR33□SC	J、K	0.33	25.2MHz/0.5V	10	25.2	0.13	1000	380
KTW1812IFR56□SC	J、K	0.56	25.2MHz/0.5V	10	25.2	0.15	1000	300
KTW1812IFR82□SC	J、K	0.82	25.2MHz/0.5V	10	25.2	0.20	1000	250
KTW1812IF1R0□SC	J、K	1.0	7.96MHz/0.5V	15	7.96	0.22	1000	200
KTW1812IF1R2□SC	J、K	1.2	7.96MHz/0.5V	15	7.96	0.35	1000	200
KTW1812IF1R5□SC	J、K	1.5	7.96MHz/0.5V	15	7.96	0.32	1000	180
KTW1812IF1R8□SC	J、K	1.8	7.96MHz/0.5V	15	7.96	0.35	950	160
KTW1812IF2R2□SC	J、K	2.2	7.96MHz/0.5V	15	7.96	0.37	900	150
KTW1812IF2R7□SC	J、K	2.7	7.96MHz/0.5V	15	7.96	0.37	850	145
KTW1812IF3R3□SC	J、K	3.3	7.96MHz/0.5V	15	7.96	0.48	800	140
KTW1812IF3R9□SC	J、K	3.9	7.96MHz/0.5V	15	7.96	0.60	750	135
KTW1812IF4R7□SC	J、K	4.7	7.96MHz/0.5V	15	7.96	1.00	700	120
KTW1812IF5R6□SC	J、K	5.6	7.96MHz/0.5V	15	7.96	0.55	650	110
KTW1812IF6R8□SC	J、K	6.8	7.96MHz/0.5V	15	7.96	0.80	600	80
KTW1812IF8R2□SC	J、K	8.2	7.96MHz/0.5V	10	7.96	0.85	600	70
KTW1812IF100□SC	J、K	10	2.52MHz/0.5V	10	2.52	1.00	550	65
KTW1812IF120□SC	J、K	12	2.52MHz/0.5V	10	2.52	1.10	550	55
KTW1812IF150□SC	J、K	15	2.52MHz/0.5V	10	2.52	1.20	500	35
KTW1812IF180□SC	J、K	18	2.52MHz/0.5V	10	2.52	1.20	500	29
KTW1812IF220□SC	J、K	22	2.52MHz/0.5V	10	2.52	1.30	450	20
KTW1812IF270□SC	J、K	27	2.52MHz/0.5V	10	2.52	1.50	400	20

All specifications are subject to change without notice.

KTW1812IF Electrical Characteristics

Part Number	Tolerance	Inductance (uH) ①	Inductance Test Conditions	Q value min.	Q value Test frequency (MHz)	DCR (Ω) max. ②	Rated current (mA) ③	SRF(MHz) min.
KTW1812IF330□SC	J、K	33	2.52MHz/0.5V	10	2.52	1.70	350	18
KTW1812IF390□SC	J、K	39	2.52MHz/0.5V	10	2.52	1.80	350	14
KTW1812IF470□SC	J、K	47	2.52MHz/0.5V	10	2.52	2.00	300	10
KTW1812IF560□SC	J、K	56	2.52MHz/0.5V	10	2.52	2.20	290	10
KTW1812IF680□SC	J、K	68	2.52MHz/0.5V	10	2.52	2.40	260	5.4
KTW1812IF820□SC	J、K	82	2.52MHz/0.5V	10	2.52	2.80	240	5.2
KTW1812IF101□SC	J、K	100	0.796MHz/0.5V	10	0.796	3.00	220	4.0
KTW1812IF121□SC	J、K	120	0.796MHz/0.5V	10	0.796	3.30	220	3.3
KTW1812IF151□SC	J、K	150	0.796MHz/0.5V	10	0.796	3.70	200	3.0
KTW1812IF181□SC	J、K	180	0.796MHz/0.5V	10	0.796	4.50	200	3.0
KTW1812IF221□SC	J、K	220	0.796MHz/0.5V	10	0.796	8.00	170	2.5
KTW1812IF271□SC	J、K	270	0.796MHz/0.5V	10	0.796	8.50	160	2.2
KTW1812IF331□SC	K	330	0.796MHz/0.5V	10	0.796	9.00	150	2.0
KTW1812IF391□SC	K	390	0.796MHz/0.5V	10	0.796	9.50	130	1.8
KTW1812IF471□SC	K	470	0.796MHz/0.5V	8	0.796	10.4	120	1.6
KTW1812IF561□SC	K	560	0.796MHz/0.5V	8	0.796	12.5	110	1.5
KTW1812IF681□SC	K	680	0.796MHz/0.5V	8	0.796	14.0	100	1.5
KTW1812IF751□SC	K	750	0.796MHz/0.5V	8	0.796	14.5	95	1.5
KTW1812IF821□SC	K	820	0.796MHz/0.5V	8	0.796	15.0	95	1.5
KTW1812IF102□SC	K	1000	0.252MHz/0.5V	6	0.252	16.5	90	1.4

Note：

① Inductance tested using an Agilent/HP4286A or equivalent.

② DCR measured on a micro-ohmmeter.

③ Rated current: The DC current at which the temperature rise △t=40℃(Ta=20℃).

④ Represents the tolerance of inductance: K=±10%,M=±20%