

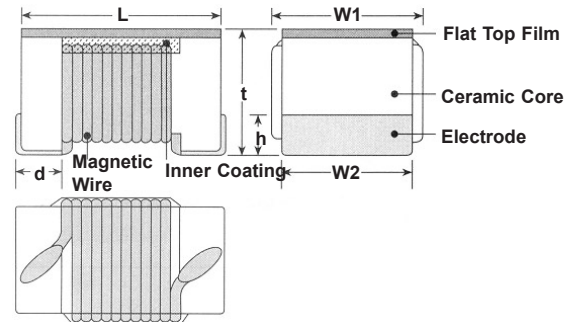
Surface Mount High Q Wirewound Inductors
KQ & KQT Series, Specifications



Part Number Determination

KQ1008LTE10NJ					
KQ	1008	L	TE	10N	J
SERIES	SIZE	TERMINATION	PACKAGING	INDUCTANCE	TOLERANCE
KQ KQT	0402 0603 0805 1008	L=SnPb (Tin/Lead) T=Sn (100% Tin)	TE=7" embossed plastic tape TD=7% paper tape	10N=10nH R10=0.1uH 1R0=1.0uH	C=0.2nH G=±2% H=±3% J=±5% K=±10% M=±20

Construction

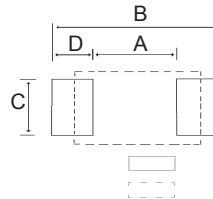


Package Dimensions (in/mm)

Size	L	W1	W2	t	h	d
0402	0.39±.004 (1.0±0.1)	0.2±.004 (0.5±0.1)	.02±.004 (0.5±0.1)	.022±.004 (0.55±0.1)	.006±.004 (0.15±0.1)	0.1±.004 (0.25±0.1)
0603	.063 ±.004 (1.6±0.1)	.039±.004 (1.0±0.1)	.033±.004 (0.85±0.1)	.035±.004 (0.9±0.1)	.01±.006 (0.25±0.15)	.014±.004 (0.35±0.1)
0805	.079±.008 2.0±0.2	.059±.008 1.5±0.2	.053±.004 1.35±0.1	.051±.008 1.3±0.2	.016±.006 0.40±0.15	.018±.004 0.45±0.1
1008	.098±.008 2.5±0.2	.087±.008 2.2±0.2	.079±.004 2.0±0.1	.071±.008-0 1.8±0.2-0	.018±.006 0.45±0.15	.018±.004 0.45±0.1

Land Pattern (mm)

Size	Dimension	A	B	C	D
0402	1.0X0.5	0.45	1.18	0.66	0.36
0603	1.6X1.0	0.64	1.92	1.02	0.64
0805	2.0X1.5	0.76	2.8	1.78	0.016
1008	2.5X2.2	1.27	3.31	2.54	1.0



Electrical Characteristics (0402)

Part Number	Marking	Inductance		Quality Factor		SRF min. (MHz)	DC. Res. Max.	Allowable DC Current max. (mA)	Meas. Freq. (MHz)
		Ind. (nH)	Tol. (%)	Q min	Freq. (MHz)				
KQT0402TTD1N0	--	1.0	C:0.2nH	16	250	6000	0.045	1360	250
KQT0402TTD2N0		2.0		19			0.070	1040	
KQT0402TTD2N2		2.2					960		
KQT0402TTD3N3		3.3					0.066	840	
KQT0402TTD3N6		3.6							
KQT0402TTD3N9		3.9							
KQT0402TTD5N1		5.1	H: ±3% J: ±5% K: ±10%	20	5800	0.083	800		
KQT0402TTD5N6		5.6					760		
KQT0402TTD6N2		6.2							
KQT0402TTD7N5		7.5		22	4400	0.104	680		
KQT0402TTD8N2		8.2							
KQT0402TTD9N0		9.0		21	4160	0.195	480		
KQT0402TTD10N		10			3900				
KQT0402TTD11N		11		24	3680	0.120	640		
KQT0402TTD12N		12			3600				
KQT0402TTD15N		15			3280	0.172	560		
KQT0402TTD19N		19			3040			0.202	
KQT0402TTD23N		23			2720	0.214	400		
KQT0402TTD27N		27			2480			0.298	
KQT0402TTD34N		34			2400	0.550	340		
KQT0402TTD36N		36			2320			0.560	
KQT0402TTD40N		40			2240	0.620			
KQT0402TTD47N		47			2100		0.830	150	
KQT0402TTD56N		56			25	2800			



Surface Mount High Q Wirewound Inductors
KQ0603 Specifications



Electrical Characteristics (0603)

Part Number	Marking	Inductance		Quality Factor		SRF min. (MHz)	DC Res. Max. (W)	Allowable DC Current max. (mA)	Meas. Freq. Mhz		
		Ind. (nH)	Tol. (%)	Q min.	Freq. (MHz)						
KQ0603LTE1N6	C	1.6	J: ±5% K: ±10%	24	250	12500	0.03	700	250		
KQ0603LTE1N8	0	1.8		16			0.045				
KQ0603LTE3N3	X	3.3		22		6900	0.055				
KQ0603LTE3N6	E	3.6					0.063				
KQ0603LTE3N9	1	3.9					0.08				
KQ0603LTE4N3	F	4.3		20		5900	0.063				
KQ0603LTE4N7	G	4.7					0.116				
KQ0603LTE5N1	Y	5.1	G: ±2% J: ±5% K: ±10%	27		5800	0.115				
KQ0603LTE6N8	2	6.8					0.11				
KQ0603LTE7N5	H	7.5		28		4800	0.106				
KQ0603LTE8N2	A	8.2					0.12				
KQ0603LTE8N7	J	8.7				4600	0.109				
KQ0603LTE9N5	B	9.5		31			0.125				
KQ0603LTE10N	3	10		4800		0.13					
KQ0603LTE11N	K	11		33		4000	0.086				
KQ0603LTE12N	4	12		35			0.13				
KQ0603LTE15N	5	15		3300		0.17					
KQ0603LTE16N	L	16				34	0.104				
KQ0603LTE18N	6	18		35		3100	0.17	600	200		
KQ0603LTE22N	7	22		38		3000	0.19				
KQ0603LTE23N	S	23		37		2700	0.15				
KQ0603LTE24N	M	24				2650	0.135				
KQ0603LTE27N	8	27		40		2800	0.22				
KQ0603LTE30N	N	30		37		2250	0.144				
KQ0603LTE33N	9	33		40		2300	0.22				
KQ0603LTE36N	P	36		38		2080	0.25				
KQ0603LTE39N	0	39		40		2200					
KQ0603LTE43N	Q	43		39		2000	0.28				
KQ0603LTE47N	1	47		38	200	1900	0.30				
KQ0603LTE51N	T	51					0.31				
KQ0603LTE56N	2	56					37			0.34	
KQ0603LTE68N	3	68				1700	0.49	400	150		
KQ0603LTE72N	4	72					34			0.54	
KQ0603LTE82N	5	82		150	1400	0.58	300				
KQ0603LTER10	6	100			1350	0.61					
KQ0603LTER11	7	110			32		1300	0.65		280	
KQ0603LTER12	8	120					1400	0.92		280	
KQ0603LTER15	9	150		25	100	1300	2.2	140	100		
KQ0603LTER18	0	180				1200	2.3	130			
KQ0603LTER20	U	200					2.5	120			
KQ0603LTER21	V	210				1000	2.4				
KQ0603LTER22	1	220		24		900	2.3	170			
KQ0603LTER25	W	250				800	3.0	100			
KQ0603LTER27	2	270				700	3.7	80			
KQ0603LTER33	3	330		30							
KQ0603LTER39	4	390									



Surface Mount High Q Wirewound Inductors
KQ0805, KQ1008 Series, Specifications



Electrical Characteristics (0805)

Part Number	Marking	Inductance		Quality Factor		SRF min. (MHz)	DC. Res. Max.	Allowable DC Current max. (mA)	Meas. Freq. (MHz)		
		Ind. (nH)	Tol. (%)	Q min	Freq. (MHz)						
KQ0805TE3N3	0	3.3	J(±5%) K(±10%) M(±20%)	50	1500	6000	0.08	600	250		
KQ0805TE6N8	1	6.8			1000	5500	0.11				
KQ0805TE8N2	2	8.2				4700	0.12				
KQ0805TE12N	3	12			4000	0.15					
KQ0805TE15N	4	15		500	3400	0.17	500				
KQ0805TE18N	5	18			3300	0.20					
KQ0805TE22N	6	22			55	2600		0.22			
KQ0805TE27N	7	27				2500		0.25			
KQ0805TE33N	8	33			60	2050		0.27			
KQ0805TE39N	9	39				2000		0.29			
KQ0805TE47N	0	47				1650		0.31			
KQ0805TE56N	1	56	G(±2%) J(±5%) K(±10%)		65	1550		0.34	400	200	
KQ0805TE68N	2	68		1450		0.38					
KQ0805TE82N	3	82		1300		0.42					
KQ0805TER10	4	100		1200		0.46					
KQ0805TER12	5	120		50	250	1100	0.51	150			
KQ0805TER15	6	150				920	0.56				
KQ0805TER18	7	180				870	0.64				
KQ0805TER22	8	220				850	0.70				
KQ0805TER27	9	270		48		650	1.0		350	100	
KQ0805TER33	0	330				600	1.4				310
KQ0805TER39	1	390				560	1.5				290
KQ0805TER47	2	470				375	1.76				250
KQ0805TER56	3	560	J(±5%) K(±10%)	23	50	340	1.9	230	25		
KQ0805TER68	4	680				188	2.2	190			
KQ0805TER82	5	820				215	2.35	180			

Electrical Characteristics (1008)

Part Number	Marking	Inductance		Quality Factor		SRF min. (MHz)	DC Res. Max. (W)	Allowable DC Current max. (mA)	Meas. Freq. Mhz		
		Ind. (nH)	Tol. (%)	Q min.	Freq. (MHz)						
KQ1008TE10N	10N	10	K(±10%) M(±20%)	50	500	4100	0.08	1000	50		
KQ1008TE12N	12N	12				3300	0.09				
KQ1008TE15N	15N	15				3000	0.10				
KQ1008TE18N	18N	18				2500	0.11				
KQ1008TE22N	22N	22		55	350	2400	0.12				
KQ1008TE27N	27N	27				1600	0.13				
KQ1008TE33N	33N	33				60	1500			1500	0.14
KQ1008TE39N	39N	39								1500	0.15
KQ1008TE47N	47N	47				65	1300			1300	0.16
KQ1008TE56N	56N	56								1300	0.18
KQ1008TE68N	68N	68	1300	0.20							
KQ1008TE82N	82N	82	60	1000	1000	0.22	800				
KQ1008TER10	R10	100			950	0.56					
KQ1008TER12	R12	120	K(±10%) J(±5%)	45	100	850	0.63	25			
KQ1008TER15	R15	150				750	0.77			750	
KQ1008TER18	R18	180				700	0.84			720	
KQ1008TER22	R22	220				600	0.91			690	
KQ1008TER27	R27	270				570	1.05			660	
KQ1008TER33	R33	330				500	1.12			630	
KQ1008TER39	R39	390				450	1.19			600	
KQ1008TER47	R47	470				415	1.33			580	
KQ1008TER56	R56	560				375	1.40			560	
KQ1008TER62	R62	620				360	1.47			540	
KQ1008TER68	R68	680	K(±10%) J(±5%)	35	50	360	1.54	520	7.9		
KQ1008TER75	R75	750				350	1.61	500			
KQ1008TER82	R82	820				320	1.68	480			
KQ1008TER91	R91	910				290	1.75	460			
KQ1008TE1R0	1R0	1000				250	2.0	440			
KQ1008TE1R2	1R2	1200		28		160	200	2.3		420	
KQ1008TE1R5	1R5	1500					140	2.6		400	
KQ1008TE1R8	1R8	1800					110	2.8		380	
KQ1008TE2R2	2R2	2200		22	25	140	3.2	360			
KQ1008TE2R7	2R7	2700				110	3.4	350			
KQ1008TE3R3	3R3	3300	100			3.6	340				
KQ1008TE3R9	3R9	3900	20	15	7.9	90	4.0	330			
KQ1008TE4R7	4R7	4700				80	2.2	150			
KQ1008TE5R6	5R6	5600				70	2.5				
KQ1008TE6R8	6R8	6800				65	2.8				
KQ1008TE8R2	8R2	8200				60	3.2				
KQ1008TE100	100	10000									