



Surface Mount High Q Wirewound Inductors

- *Excellent high frequency applications*
- *High Q factors and self-resonant frequency values*
- *Flat top suitable for high speed pick-and-place components*
- *RoHS compliant*



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

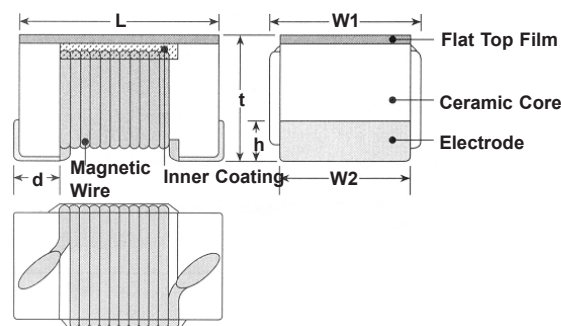
Package Dimensions (in/mm)

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

Electrical Characteristics (0402)

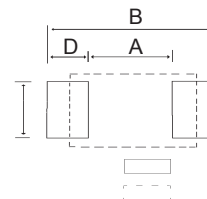
Part Number	Case Size	Inductance		Quality Factor		SRF min. (MHz)	DC. Res. Max.	Allowable DC Current max. (mA)	Meas. Freq. (MHz)
		Ind. (nH)	Tol. (%)	Q min	Freq. (MHz)				
KQT0402TTD1N0	0402	1.0	C:0.2nH	16	6000	0.045	1360	250	
KQT0402TTD2N0		2.0							19
KQT0402TTD2N2		2.2		20		5800	0.070		
KQT0402TTD3N3		3.3							22
KQT0402TTD3N6		3.6		21		4160	0.083		
KQT0402TTD3N9		3.9							24
KQT0402TTD5N1		5.1	25	3600	0.195	480			
KQT0402TTD5N6		5.6					22		3600
KQT0402TTD6N2		6.2	24	3280	0.172	560			
KQT0402TTD7N5		7.5					24		3040
KQT0402TTD8N2		8.2	22	2720	0.214	400			
KQT0402TTD9N0		9.0					22		2480
KQT0402TTD10N		10	22	2400	0.550	340			
KQT0402TTD11N		11					22		2320
KQT0402TTD12N		12	22	2240	0.620	320			
KQT0402TTD15N		15					22		2100
KQT0402TTD19N		19	22	2800	1.170	200			
KQT0402TTD23N		23					22		2000
KQT0402TTD27N		27	22	1800	1.800	140			
KQT0402TTD34N		34					22		1600
KQT0402TTD36N		36	22	1500	2.320	120			
KQT0402TTD40N		40					22		1500
KQT0402TTD47N		47	22	1500	2.320	120			
KQT0402TTD56N		56					22		1500
KQT0402TTD68N	68	22	1500	2.320	120				
KQT0402TTD82N	82					22	1500	2.320	120
KQT0402TTD10	100	22	1500	2.320	120				
KQT0402TTD12	120					22	1500	2.320	120

Construction



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



Engineering Design Kits Available
See Garrett Kit Catalog

(specifications continued on following pages)



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KQ 0603 Series Specifications

Electrical Characteristics (0603)

Part Number	Case Size	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)							
KQ0603TTE1N6	0603	C	1.6	J: ±5% K: ±10%	24	250	12500	0.03	700	250			
KQ0603TTE1N8		0	1.8		16			0.045					
KQ0603TTE3N3		X	3.3		22		6900	0.055					
KQ0603TTE3N6		E	3.6					0.063					
KQ0603TTE3N9		1	3.9					0.08					
KQ0603TTE4N3		F	4.3		20		5900	0.063					
KQ0603TTE4N7		G	4.7					0.116					
KQ0603TTE5N1		Y	5.1				5800	0.115					
KQ0603TTE6N8		2	6.8	G: ±2% J: ±5% K: ±10%	27			0.11					
KQ0603TTE7N5		H	7.5		28		4800	0.106					
KQ0603TTE8N2		A	8.2					0.12					
KQ0603TTE8N7		J	8.7		31		4600	0.109					
KQ0603TTE9N5		B	9.5					0.125					
KQ0603TTE10N		3	10		33		4800	0.13					
KQ0603TTE11N		K	11					0.086					
KQ0603TTE12N		4	12		35		4000	0.13					
KQ0603TTE15N		5	15					0.17					
KQ0603TTE16N		L	16		34		3300	0.104					
KQ0603TTE18N		6	18					35			3100	0.17	
KQ0603TTE22N		7	22		38		3000	0.19					
KQ0603TTE23N		S	23		37		2700	0.15					
KQ0603TTE24N		M	24					2650			0.135		
KQ0603TTE27N		8	27		40		2800	0.22	600				
KQ0603TTE30N		N	30		37		2250	0.144					
KQ0603TTE33N		9	33		40		2300	0.22					
KQ0603TTE36N		P	36		38		2080	0.25					
KQ0603TTE39N		0	39		40		2200	0.28					
KQ0603TTE43N		Q	43		39		2000	0.28					
KQ0603TTE47N		1	47		38		1900	0.30	200				
KQ0603TTE51N		T	51		37	200		0.31					
KQ0603TTE56N		2	56					0.34					
KQ0603TTE68N		3	68		34	150	1700	0.49	400	150			
KQ0603TTE72N		4	72		32			0.54					
KQ0603TTE82N		5	82		32		1400	0.58					
KQ0603TTER10		6	100		32		1350	0.61	300				
KQ0603TTER11		7	110		32		1300	0.65					
KQ0603TTER12		8	120		32		1400	0.92					
KQ0603TTER15		9	150		25	100	1300	2.2	140	100			
KQ0603TTER18		0	180		25			2.3					
KQ0603TTER20		U	200		25		1200	2.5					
KQ0603TTER21		V	210		24		1000	2.4	120				
KQ0603TTER22		1	220					900			2.3		
KQ0603TTER25		W	250		30		800	3.0	100				
KQ0603TTER27		2	270					700			3.7		
KQ0603TTER33		3	330										
KQ0603TTER39		4	390										

(specifications continued on following page)



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KQ 0805 Series Specifications

Electrical Characteristics (0805)

Part Number	Case Size	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)				
KQ0805TTE3N3	0805	0	3.3	J(±5%) K(±10%) M(±20%)	50	1500	6000	0.08	600	250
KQ0805TTE6N8		1	6.8			1000	5500	0.11		
KQ0805TTE8N2		2	8.2				4700	0.12		
KQ0805TTE12N		3	12			4000	0.15			
KQ0805TTE15N		4	15		3400	0.17				
KQ0805TTE18N		5	18		3300	0.20				
KQ0805TTE22N		6	22		2600	0.22	500			
KQ0805TTE27N		7	27		2500	0.25				
KQ0805TTE33N		8	33		2050	0.27				
KQ0805TTE39N		9	39		2000	0.29				
KQ0805TTE47N		0	47		1650	0.31	200			
KQ0805TTE56N		1	56	1550	0.34					
KQ0805TTE68N		2	68	1450	0.38					
KQ0805TTE82N		3	82	1300	0.42	400				
KQ0805TTER10		4	100	1200	0.46					
KQ0805TTER12		5	120	1100	0.51					
KQ0805TTER15		6	150	920	0.56					
KQ0805TTER18		7	180	870	0.64	100				
KQ0805TTER22		8	220	850	0.70					
KQ0805TTER27		9	270	650	1.0		350			
KQ0805TTER33		0	330	600	1.4		310			
KQ0805TTER39		1	390	560	1.5	290	50			
KQ0805TTER47		2	470	375	1.76	250				
KQ0805TTER56		3	560	340	1.9	230				
KQ0805TTER68		4	680	188	2.2	190		25		
KQ0805TTER82		5	820	215	2.35	180				

(specifications continued on following page)



Surface Mount High Q Wirewound Inductors



KQ 1008 Series Specifications

Electrical Characteristics (1008)

Part Number	Case Size	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)					
KQ1008TTE10N	1008	10N	10	K(±10%) M(±20%)	50	500	4100	0.08	1000	50	
KQ1008TTE12N		12N	12				3300	0.09			
KQ1008TTE15N		15N	15				3000	0.10			
KQ1008TTE18N		18N	18				2500	0.11			
KQ1008TTE22N		22N	22		2400	0.12					
KQ1008TTE27N		27N	27		55	1600	0.13	1500			0.14
KQ1008TTE33N		33N	33				0.15				
KQ1008TTE39N		39N	39				0.16				
KQ1008TTE47N		47N	47				0.18				
KQ1008TTE56N		56N	56		65	1300	0.20	1000			0.22
KQ1008TTE68N		68N	68				0.22				
KQ1008TTE82N		82N	82				0.22				
KQ1008TTER10		R10	100	0.56							
KQ1008TTER12		R12	120	60	950	0.63	800	0.63			
KQ1008TTER15		R15	150			0.70		0.70			
KQ1008TTER18		R18	180			0.77		0.77			
KQ1008TTER22		R22	220			0.84		0.84			
KQ1008TTER27		R27	270	45	100	600	0.91	690			
KQ1008TTER33		R33	330			570	1.05	660			
KQ1008TTER39		R39	390			500	1.12	630			
KQ1008TTER47		R47	470			450	1.19	600			
KQ1008TTER56		R56	560			415	1.33	580			
KQ1008TTER62		R62	620			375	1.40	560			
KQ1008TTER68		R68	680			375	1.47	540			
KQ1008TTER75		R75	750			360	1.54	520			
KQ1008TTER82		R82	820			350	1.61	500			
KQ1008TTER91		R91	910			320	1.68	480			
KQ1008TTE1R0		1R0	1000	35	50	290	1.75	460			
KQ1008TTE1R2		1R2	1200			250	2.0	440			
KQ1008TTE1R5		1R5	1500			200	2.3	420			
KQ1008TTE1R8		1R8	1800			200	2.6	400			
KQ1008TTE2R2		2R2	2200	28	160	2.8	380				
KQ1008TTE2R7		2R7	2700			3.2	360				
KQ1008TTE3R3		3R3	3300			3.4	350				
KQ1008TTE3R9		3R9	3900			3.6	340				
KQ1008TTE4R7		4R7	4700	20	25	4.0	330				
KQ1008TTE5R6		5R6	5600			80	2.2	150			
KQ1008TTE6R8		6R8	6800			70	2.5				
KQ1008TTE8R2		8R2	8200			65	2.8				
KQ1008TTE100		100	10000	60	3.2						