Garrett Electronics Corp.
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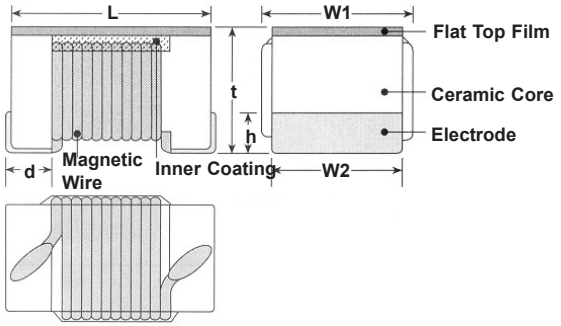
Surface Mount High Q Wirewound Inductors
KQ & KQT Series, Specifications

KOA SPEER ELECTRONICS, INC.

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

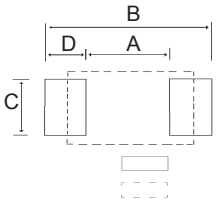


Package Dimensions (in/mm)

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					0.070	1040	
KQT0402TTD2N2		2.2		19				960	
KQT0402TTD3N3		3.3					0.066	840	
KQT0402TTD3N6		3.6							
KQT0402TTD3N9		3.9				5800			
KQT0402TTD5N1		5.1	H: ±3% J: ±5% K: ±10%	20			0.083	800	
KQT0402TTD5N6		5.6						760	
KQT0402TTD6N2		6.2							
KQT0402TTD7N5		7.5		22			0.104	680	
KQT0402TTD8N2		8.2				4400			
KQT0402TTD9N0		9.0				4160			
KQT0402TTD10N		10		21		3900	0.195	480	
KQT0402TTD11N		11		24		3680	0.120	640	
KQT0402TTD12N		12				3600			
KQT0402TTD15N		15				3280	0.172	560	
KQT0402TTD19N		19				3040	0.202	480	
KQT0402TTD23N		23				2720	0.214	400	
KQT0402TTD27N		27				2480	0.298		
KQT0402TTD34N		34				2400	0.550	340	
KQT0402TTD36N		36				2320	0.560	320	
KQT0402TTD40N		40				2240	0.620		
KQT0402TTD47N		47		20		2100	0.830	150	
KQT0402TTD56N		56		25		2800	1.17	200	

Mfg Specs
- Go to www.garrettelec.com
- Enter part number or find by description
- Select "S", select "manufacturer's specifications"

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Surface Mount High Q Wirewound Inductors
KQ0603 Specifications

KOA SPEER ELECTRONICS, INC.

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				5900	0.063		
KQ0603LTE4N7	G	4.7		20		5800	0.116		
KQ0603LTE5N1	Y	5.1					0.115		
KQ0603LTE6N8	2	6.8	G: ±2% J: ±5% K: ±10%	27			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				4800	0.125		
KQ0603LTE10N	3	10		31			0.13		
KQ0603LTE11N	K	11		33		4000	0.086		
KQ0603LTE12N	4	12		35			0.13		
KQ0603LTE15N	5	15					0.17		
KQ0603LTE16N	L	16		34		3300	0.104		
KQ0603LTE18N	6	18		35		3100	0.17		
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	600	
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				200
KQ0603LTE51N	T	51				1900	0.30		
KQ0603LTE56N	2	56					0.31		
KQ0603LTE68N	3	68		37		1700	0.34		
KQ0603LTE72N	4	72		34	150		0.49	400	150
KQ0603LTE82N	5	82					0.54		
KQ0603LTER10	6	100				1400	0.58		
KQ0603LTER11	7	110		32		1350	0.61	300	
KQ0603LTER12	8	120				1300	0.65		
KQ0603LTER15	9	150				1400	0.92	280	
KQ0603LTER18	0	180		25	100	1300	2.2	140	100
KQ0603LTER20	U	200				1200	2.3	130	
KQ0603LTER21	V	210							
KQ0603LTER22	1	220					2.5	120	
KQ0603LTER25	W	250		24		1000	2.4		
KQ0603LTER27	2	270				900	2.3	170	
KQ0603LTER33	3	330		30		800	3.0	100	
KQ0603LTER39	4	390				700	3.7	80	

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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			500	4000	0.15		
KQ0805TE15N	4	15				3400	0.17		
KQ0805TE18N	5	18				3300	0.20		
KQ0805TE22N	6	22		55		2600	0.22	500	
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		200
KQ0805TE56N	1	56	G(±2%) J(±5%) K(±10%)			1550	0.34		
KQ0805TE68N	2	68				1450	0.38		
KQ0805TE82N	3	82		65		1300	0.42	400	150
KQ0805TER10	4	100				1200	0.46		
KQ0805TER12	5	120		50	250	1100	0.51		100
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	
KQ0805TER33	0	330				600	1.4	310	
KQ0805TER39	1	390				560	1.5	290	
KQ0805TER47	2	470	J(±5%) K(±10%	33	100	375	1.76	250	50
KQ0805TER56	3	560		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			350	2500	0.11		
KQ1008TE22N	22N	22		55		2400	0.12		
KQ1008TE27N	27N	27				1600	0.13		
KQ1008TE33N	33N	33		60			0.14		
KQ1008TE39N	39N	39				1500	0.15		
KQ1008TE47N	47N	47					0.16		
KQ1008TE56N	56N	56	K(±10%) J(±5%)	65		1300	0.18		
KQ1008TE68N	68N	68					0.20		
KQ1008TE82N	82N	82		60		1000	0.22		
KQ1008TER10	R10	100					0.56	800	25
KQ1008TER12	R12	120				950	0.63		
KQ1008TER15	R15	150		45	100	850	0.70		
KQ1008TER18	R18	180				750	0.77	750	
KQ1008TER22	R22	220				700	0.84	720	
KQ1008TER27	R27	270				600	0.91	690	
KQ1008TER33	R33	330				570	1.05	660	
KQ1008TER39	R39	390				500	1.12	630	
KQ1008TER47	R47	470				450	1.19	600	
KQ1008TER56	R56	560				415	1.33	580	
KQ1008TER62	R62	620				375	1.40	560	
KQ1008TER68	R68	680					1.47	540	
KQ1008TER75	R75	750				360	1.54	520	
KQ1008TER82	R82	820				350	1.61	500	
KQ1008TER91	R91	910		35	50	320	1.68	480	
KQ1008TE1R0	1R0	1000				290	1.75	460	
KQ1008TE1R2	1R2	1200				250	2.0	440	7.9
KQ1008TE1R5	1R5	1500		28		200	2.3	420	
KQ1008TE1R8	1R8	1800				160	2.6	400	
KQ1008TE2R2	2R2	2200					2.8	380	
KQ1008TE2R7	2R7	2700		22	25	140	3.2	360	
KQ1008TE3R3	3R3	3300				110	3.4	350	
KQ1008TE3R9	3R9	3900		20		100	3.6	340	
KQ1008TE4R7	4R7	4700				90	4.0	330	
KQ1008TE5R6	5R6	5600		15	7.9	80	2.2	150	
KQ1008TE6R8	6R8	6800				70	2.5		
KQ1008TE8R2	8R2	8200				65	2.8		
KQ1008TE100	100	10000				60	3.2		