

KC20 Series GP

Polymer Solid Aluminium



Features

- Applications: Power Supplies, Inverters, Computer products
- High ripple current capability
- High frequency capability
- Wide temperature operating tolerance
- Lifetime: 2000~3000 hours @ 105°C

Specifications

Operating temperature	-55~+105°C		
Voltage range	2.5~25V DC		
Capacitance range	10~3500 UF		
Leakage current (+20°C)	$I \leq 0.2CV$		
tanδ (120Hz,+20°C)	Rated Voltage	2.5~16	20~25
	tanδ	0.08	0.12

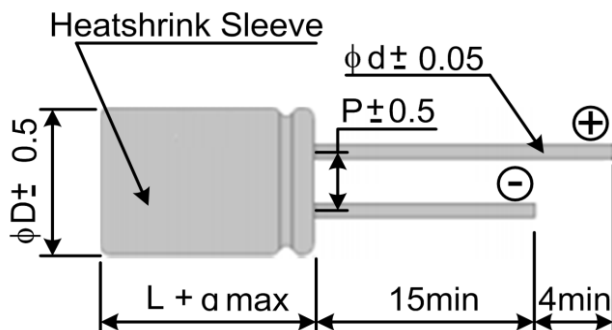
Test Conditions

Load life (+105°C 2000H)	Cap change	$\leq \pm 20\%$ of the Initial measured value
	Leakage Current	\leq The Initial specified value
	ESR	$\leq 150\%$ of the Initial specified value
	tanδ	$\leq 150\%$ of the Initial specified value
Moisture Resistance Stored at 60°C, RH90~95%, 1000h	Cap change	$\leq \pm 20\%$ of the Initial measured value
	Leakage Current	\leq The Initial specified value
	ESR	$\leq 150\%$ of the Initial specified value
	tanδ	$\leq 150\%$ of the Initial specified value

Frequency Coefficient

Frequency (Hz)	120 ~ 1K	1K ~ 10K	10K ~ 100K	100K ~ 300K
Coefficient	0.05	0.30	0.70	1.00

Case dimensions table



$\phi D * L$	$\phi D \pm 0.5$	a	$P \pm 0.5$	$\phi d \pm 0.05$
5*7/8	5	1	2	0.45/0.5
5*9/10	5	1	2	0.5
5*9E/10E/11E	5.5	1	2.5	0.5
6.3*7/8/9	6.3	1	2.5	0.5/0.6
6.3*11/12	6.3	1	2.5	0.5/0.6
8*7/8	8	1	3.5	0.6
8*8P/11P/12P	8	1.5	2.5	0.6
8*11.5/12.5/15	8	1.5	3.5	0.6
10*12.5/13.5/15	10	1.5	5	0.6

P after the Length indicates a convex rubber plug is fitted not flat.

KC20 Series

Standard rating

Voltage	Capacitance	ESR Typical	Ripple Current	Leakage Current	Body			Leads		Kormag Part Number	
					Ø Dia	Length	Opt	Pitch	Ø Dia		
DC	(µF)	(mΩ)	(mA rms)	(µA)	(mm)						
2.5	820	16	4100	410	6.3	8		2.5	0.5 / 0.6	KC20 - 0001 - GP	
	1500	16	4500	750	10	12.5		5	0.6	KC20 - 0002 - GP	
6.3	220	21	2690	300	5	7		2.0	0.45 / 0.5	KC20 - 0003 - GP	
		21	2690	300	6.3	7		2.5	0.5 / 0.6	KC20 - 0004 - GP	
	270	21	2690	340	5.5	7		2.5	0.5	KC20 - 0005 - GP	
	330	21	2690	416	5.5	7		2.5	0.5	KC20 - 0006 - GP	
			2690	416	5	8		2.0	0.45 / 0.5	KC20 - 0007 - GP	
		21	2690	416	6.3	5		2.5	0.5 / 0.6	KC20 - 0008 - GP	
		21	2690	416	6.3	7		2.5	0.5 / 0.6	KC20 - 0009 - GP	
		21	2690	416	6.3	8		2.5	0.5 / 0.6	KC20 - 0010 - GP	
	390	21	2690	491	5	9		2.0	0.5	KC20 - 0011 - GP	
	470	14	4100	592	5.5	9		2.5	0.5	KC20 - 0012 - GP	
			4100	592	5	9		2.0	0.5	KC20 - 0013 - GP	
		14	4100	592	6.3	7		2.5	0.5 / 0.6	KC20 - 0014 - GP	
		14	4100	592	6.3	8		2.5	0.5 / 0.6	KC20 - 0015 - GP	
	560	14	4100	706	5.5	9		2.5	0.5	KC20 - 0016 - GP	
			4100	706	6.3	7		2.5	0.5 / 0.6	KC20 - 0017 - GP	
		14	4100	706	6.3	8		2.5	0.5 / 0.6	KC20 - 0018 - GP	
		14	4500	706	8	8		3.5	0.6	KC20 - 0019 - GP	
	680	14	4500	857	6.3	8		2.5	0.5 / 0.6	KC20 - 0020 - GP	
			4700	857	8	8		3.5	0.6	KC20 - 0021 - GP	
	820	14	4500	1033	5.5	11		2.5	0.5	KC20 - 0022 - GP	
			4500	1033	6.3	11		2.5	0.5 / 0.6	KC20 - 0023 - GP	
		14	4500	1033	6.3	8		2.5	0.5 / 0.6	KC20 - 0024 - GP	
		14	4500	1033	6.3	9		2.5	0.5 / 0.6	KC20 - 0025 - GP	
		14	4500	1033	8	8		3.5	0.6	KC20 - 0026 - GP	
	1000	14	4500	1260	6.3	12		2.5	0.5 / 0.6	KC20 - 0027 - GP	
			4500	1260	6.3	9		2.5	0.5 / 0.6	KC20 - 0028 - GP	
		14	4700	1260	8	11	P	2.5	0.6	KC20 - 0029 - GP	
		14	4500	1260	8	11.5		3.5	0.6	KC20 - 0030 - GP	
		14	4500	1260	8	8		3.5	0.6	KC20 - 0031 - GP	
	1200	14	4500	1512	8	11	P	2.5	0.6	KC20 - 0032 - GP	
	1500	14	4900	1890	10	12.5		5	0.6	KC20 - 0033 - GP	
			4100	1890	6.3	14		2.5	0.5 / 0.6	KC20 - 0034 - GP	
14		4900	1890	8	11	P	2.5	0.6	KC20 - 0035 - GP		
6.8	330	16	2690	449	5	8		2.0	0.45 / 0.5	KC20 - 0036 - GP	
	470	16	4100	639	5	8		2.0	0.45 / 0.5	KC20 - 0037 - GP	
	680	16	4100	925	6.3	8		2.5	0.5 / 0.6	KC20 - 0038 - GP	
	820	16	4100	1115	6.3	9		2.5	0.5 / 0.6	KC20 - 0039 - GP	
7.5	330	16	4100	495	5.5	7		2.5	0.5	KC20 - 0040 - GP	
		16	4100	495	6.3	8		2.5	0.5 / 0.6	KC20 - 0041 - GP	
	470	16	4100	705	5.5	9		2.5	0.5	KC20 - 0042 - GP	
		16	4100	705	5	9		2.0	0.5	KC20 - 0043 - GP	
		16	4100	705	6.3	8		2.5	0.5 / 0.6	KC20 - 0044 - GP	
	560	16	4100	840	6.3	8		2.5	0.5 / 0.6	KC20 - 0045 - GP	
	680	16	4100	1020	6.3	8		2.5	0.5 / 0.6	KC20 - 0046 - GP	
	820	16	4100	1230	6.3	11		2.5	0.5 / 0.6	KC20 - 0047 - GP	
	10	100	18	2690	300	5	7		2.0	0.45 / 0.5	KC20 - 0048 - GP
		220	16	2690	440	5	9		2.0	0.5	KC20 - 0049 - GP
16			2690	440	6.3	8		2.5	0.5 / 0.6	KC20 - 0050 - GP	
270		16	2690	540	6.3	8		2.5	0.5 / 0.6	KC20 - 0051 - GP	
330		16	4100	660	6.3	8		2.5	0.5 / 0.6	KC20 - 0052 - GP	
		14	4100	940	6.3	9		2.5	0.5 / 0.6	KC20 - 0053 - GP	
470		14	4500	940	8	8		3.5	0.6	KC20 - 0054 - GP	
		14	4100	1120	6.3	9		2.5	0.5 / 0.6	KC20 - 0055 - GP	
560		14	4500	1120	8	8		3.5	0.6	KC20 - 0056 - GP	
		14	4100	1360	6.3	12		2.5	0.5 / 0.6	KC20 - 0057 - GP	
820		14	4500	1640	8	11	P	2.5	0.6	KC20 - 0058 - GP	
		14	4500	1640	8	11.5		3.5	0.6	KC20 - 0059 - GP	

ESR and Maximum allowable ripple current(mA rms) @ 105°C 100KHz

P after the Length in the Opt column indicates a convex rubber plug is fitted not flat.

KC20 Series

Standard rating

Voltage DC	Capacitance (μ F)	ESR Typical (m Ω)	Ripple Current (mA rms)	Leakage Current (μ A)	Body			Leads		Kormag Part Number
					\varnothing Dia	Length	Opt	Pitch	\varnothing Dia	
10	1000	14	4500	2000	8	11.5		3.5	0.6	KC20 - 0060 - GP
	1500	14	4900	3000	10	12.5		5	0.6	KC20 - 0061 - GP
12	390	22	4100	936	6.3	8		2.5	0.5 / 0.6	KC20 - 0062 - GP
16	82	22	2690	300	5	7		2.0	0.45 / 0.5	KC20 - 0063 - GP
	100	22	2690	320	5	7		2.0	0.45 / 0.5	KC20 - 0064 - GP
		22	2690	320	6.3	8		2.5	0.5 / 0.6	KC20 - 0065 - GP
	150	22	2690	480	5.5	9		2.5	0.5	KC20 - 0066 - GP
	180	22	2690	576	5.5	7		2.5	0.5	KC20 - 0067 - GP
		22	2690	576	5	8		2.0	0.45 / 0.5	KC20 - 0068 - GP
		22	2690	576	5	9		2.0	0.5	KC20 - 0069 - GP
		22	2690	576	6.3	7		2.5	0.5 / 0.6	KC20 - 0070 - GP
	220	22	2690	704	5.5	9		2.5	0.5	KC20 - 0071 - GP
		22	3500	704	6.3	11		2.5	0.5 / 0.6	KC20 - 0072 - GP
		22	3500	704	6.3	7		2.5	0.5 / 0.6	KC20 - 0073 - GP
		22	3500	704	6.3	8		2.5	0.5 / 0.6	KC20 - 0074 - GP
	270	22	4100	704	8	8		3.5	0.6	KC20 - 0075 - GP
		22	3500	864	6.3	8		2.5	0.5 / 0.6	KC20 - 0076 - GP
		22	3500	864	6.3	9		2.5	0.5 / 0.6	KC20 - 0077 - GP
	330	22	4100	864	8	8		3.5	0.6	KC20 - 0078 - GP
		22	3500	1056	5.5	11		2.5	0.5	KC20 - 0079 - GP
		22	4100	1056	6.3	11		2.5	0.5 / 0.6	KC20 - 0080 - GP
		22	4100	1056	6.3	9		2.5	0.5 / 0.6	KC20 - 0081 - GP
	470	22	4100	1056	8	7		3.5	0.6	KC20 - 0082 - GP
		22	4100	1056	8	8		3.5	0.6	KC20 - 0083 - GP
		22	4100	1504	5.5	11		2.5	0.5	KC20 - 0084 - GP
		22	4100	1504	6.3	11.5		2.5	0.5 / 0.6	KC20 - 0085 - GP
	560	22	4500	1504	8	11	P	2.5	0.6	KC20 - 0086 - GP
		22	4500	1504	8	11.5		3.5	0.6	KC20 - 0087 - GP
		22	4500	1792	8	11.5		3.5	0.6	KC20 - 0088 - GP
	680	22	4900	2176	10	12.5		5	0.6	KC20 - 0089 - GP
		22	4500	2176	8	11	P	2.5	0.6	KC20 - 0090 - GP
		22	4500	2176	8	11.5		3.5	0.6	KC20 - 0091 - GP
	820	22	4900	2624	10	12.5		5	0.6	KC20 - 0092 - GP
		22	4500	2624	8	12	P	2.5	0.6	KC20 - 0093 - GP
		22	4500	2624	8	12.5		3.5	0.6	KC20 - 0094 - GP
1000	22	4500	3200	10	12.5		5	0.6	KC20 - 0095 - GP	
	22	4500	3200	8	15		3.5	0.6	KC20 - 0096 - GP	
1200	22	4500	3840	10	12.5		5	0.6	KC20 - 0097 - GP	
1500	22	4500	4800	10	12.5		5	0.6	KC20 - 0098 - GP	
	22	4500	4800	10	15		5	0.6	KC20 - 0099 - GP	
20	220	35	4100	880	6.3	8		2.5	0.5 / 0.6	KC20 - 0100 - GP
	820	35	4500	3280	10	12.5		5	0.6	KC20 - 0101 - GP
25	100	40	4100	500	5	7		2.0	0.45 / 0.5	KC20 - 0102 - GP
		40	4100	500	6.3	7		2.5	0.5 / 0.6	KC20 - 0103 - GP
	220	35	4100	1100	6.3	8		2.5	0.5 / 0.6	KC20 - 0104 - GP
	270	35	4100	1350	6.3	9		2.5	0.5 / 0.6	KC20 - 0105 - GP
	330	35	4100	1650	6.3	12		2.5	0.5 / 0.6	KC20 - 0106 - GP
		35	4100	1650	8	11.5		3.5	0.6	KC20 - 0107 - GP
		35	4100	1650	8	8		3.5	0.6	KC20 - 0108 - GP
	470	35	4100	2350	10	12.5		5	0.6	KC20 - 0109 - GP
		35	4100	2350	8	11	P	2.5	0.6	KC20 - 0110 - GP
	560	35	4100	2350	8	11.5		3.5	0.6	KC20 - 0111 - GP
	680	35	4100	2800	10	12.5		5	0.6	KC20 - 0112 - GP
		35	4100	3400	10	12.5		5	0.6	KC20 - 0113 - GP
		35	4100	3400	8	12.5		3.5	0.6	KC20 - 0114 - GP
	820	35	4100	3400	8	15		3.5	0.6	KC20 - 0115 - GP
		35	4100	4100	10	12.5		5	0.6	KC20 - 0116 - GP
	1500	35	4100	4100	8	15		3.5	0.6	KC20 - 0117 - GP
		35	4100	7500	10	15		5	0.6	KC20 - 0118 - GP

ESR and Maximum allowable ripple current(mA rms) @ 105°C 100KHz

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