

Capacitor Leakage Current					Dec-22	Chuckb	rev M	10-Nov-21	90% DA	Comments	Revision			
Keithley 617 Electrometer										setteling				
Dielectric	MFG	PN	Capacitance	Voltage Rating	31 deg C			61 deg C						
					10V	50V	100V	10V	50v				100V	
C0G											HV Orange Disk Cap			
Leaded	TDK	FG22C0G1H224JNT6	0.22u	50V	0.1pa	0.3pa		0.9pa					Great	G
Leaded	TDK	FA22C0G1H224JNU00	0.22u	50V	<0.07pa	0.14pa		0.2pa	1pa				Great	
Leaded	TDK	FA22NP02E104JRU06	0.1u	250V	0.07pa		0.7pa						Great	
Leaded	TDK	FA22C0G2A	0.1u	100V		0.1pa							Great	
Leaded	TDK	561R10TCCQ47	47p	1000	7fa	11fa		27fa	55fa					
1206	TDK	CGA5L2C0GH104J	0.1u	50V	0.02pa	0.2pa		0.18pa	1pa				Automotive	I
1206	TDK	CGJ5L2C0G1H104J	0.1u	50V	0.02pa	0.05pa		0.1pa	0.3pa				High Reliability	I
					hours to settle									
SMD1812	TDK	C4532C0G1H224J320KA	0.22u	50V	0.04pa	0.3pa		0.3pa	1.7pa				Great	
SMD 1812	AVX	18125A104JAT2A	0.1u	50V	0.2pa			2.1pa			Great			
1206	AVX	12063A												
Leaded	KEMET	C331C104KAG5TA	0.1u	250V	4pa	18pa?	26pa?		10pa?	50pa?	days to settle			
Leaded	KEMET	C330C474K5G5TA	0.47u	50V	6pa	27pa		57pa						
SMD 2220	KEMET	C2220X474J5G	0.47u	50V	4pa			103pa						
SMD	KEMET	C0805X473K3GEC	0.047u	25V	0.7pa			3.1pa			Good			
SMD 0805	Murata	GRM21C5C1H223JA01L	0.022u	50V	1.7pa			5pa			Corrected PN	I		
SMD 1206	Murata	GRM31C5C1E474JE01L	0.47u	25V										
1812	WURTH	885012010016	0.033u	50V	0.02pa	0.1pa		0.03pa	0.3pa		large, best	H		
SMD 1812	Walsin	1812N104J101CT	0.1u	100V	0.14pa			2pa			Good			
X7R											G			
leaded	TDK	FG23X7R1C476MRT0	47u	16V	2.5na	8na at 16V		18na						
					(1.2na at 7.15V)			(9na at 7.15V)						
1206	Murata	GRM31CZ71C226ME15L	22u	16v	10V	50V	100V							
X7R	TDK		1u	100v										
X7R	KEMET		1u	100V							K	K		
					7.2V	10V	15V	7.2V	10V	15V				
1206	Murata	GRM31CZ71C226ME5L	22u	16V	18na	38na	80na	110na	220na	530na	3v 3na 27C	N		
					22na	48na	115na				3v 5na 31C			

PP Film	WIMA	MKP1D052207J00MS	22u	100V									
PP Film	WIMA	MKP2-0.22/100/5	0.22U	100V	0.4pa	7pa	70pa	0.7pa	150pa				I
PP Film	WIMA	MKP4-2210010P37	22u	100V	<5pa	22pa	131pa	10pa	800p	5000pa			
					10V 1p	50V 12p	100V 90p	10V <10pa	50V 220pa	100V 2.5na			N
Teflon	USSR	K72P-6	1989	0.1u	200V	0.01pa					Large package		
X7R COG	X2Y Johanson EMI Cap		0.039u	>100V	40pa			140pa			Low inductance EMI cap	I	
	X2Y Johanson		1000p	100V	70fa	0.31pa		0.2pa	0.84pa		Low inductance EMI cap	I	
SPARK GAP		CG2230L		250V?	10v 10fa	80v 30fa				80v 200fa	no leakage at all not much change with temp 74 deg C		
		B88069X5043T		90V	10v 17fa	50v 12fa		10v 12fa		50v 35fa	square end flanges		
Varistor		V250LA20CP		250V AC	10V 400p	50V 2n	80V 3.6n	10V 1.8na	50V 9.4na	80V 15na	lots of leakage		
		V250LA10CP		250vac	1.4n	8n	14n	6n	30n	51n	Greater than expected leakage		
		V250LA4P		250VAC smaller NON= "C"	900p	5.3n	9.5na	4n	20n	33na			
P25S130		130VAC		Large Red Square	28na	250na	530na	120na	850na	1.75u	No DA for any of these, just leakage		
SMD 1206	Murata	GRM31C5C1H224JE02L		0.22u	50V	60pa	440pa	-	500pa	a lot of DA Days to settle			
CAUTION: this is a class II product and not a COG over 2 days for the current to settle at high temp						2 min 80pa			10pa				
Thermal Shunt						10V	50V	10V		50V	0805 size		
Vishay		THJP0805AST1				35fa	200fa	0.3pa	1pa				