

Bill of material for VIPer22A-E Buck 12 V at 350 mA

Item	Qty	Ref.	Part	V/W	Description	CAT#
1	1	Cx	0.022	50 V	X7R +/-10%	GP SM Ceramic
2	2	C1,C2	10 μ F	400 V	105 C	UCC EKM401ELL100MJ20S
3	1	C3	4.7 μ F	25 V	X7R +/-10%	TDK C3216X7R1E475K
4	1	C4	0.47 μ F	25 V	X7R +/-10%	TDK C2012X7R1E474K
5	1	C6	47 μ F	50 V	105 C Low ESR	Low ESR
6	1	C7	0.1 μ	1 kV	X7R +/-15%	Murata GRM55DR73A104KW011
7	1	DZ	12 V	zener		BZT5212FDICT
8	1	DZ1	16 V	zener		BZT5216FDICT
9	3	D1,D6,D8	S1MDICT		SM GP Diode 1 kV 1 A	S1MD
10	1	D5	STTH1R06A		600 V 1 A Ultrafast	STMicroelectronics
11	2	J1, J2	2 pin			Mouser 651-1751099
12	1	L0	470 μ H	140 mA		JW Miller 5300-33
13	1	L1	1 mH	400 mA		Compostar Q3277 or JW Miller RL895-102K
14	1	R0	10 Ω	1 W	wire wound	ALSR1J-10
15	1	R1	1 k Ω		5%	SM 1206 CERAMIC
16	1	U1	VIPer22ADIP-E			STMicroelectronics

Bill of material for VIPer22A-E Buck 16 V at 350 mA

For 16 V or higher operation.						
Omit	1	D8	S1MDICT		SM GP Diode 1 kV 1A	S1MD
Omit	1	C4	0.47 μ F	25 V	X7R +/-10%	TDK C2012X7R1E474K
Add	1	Jumper	Wire jumper		24 AWG	