

Parts for DAC32, Revision 2.0

Last revised 8/1/14 by Ed Eyer

Reference Designators	Product/Value	QTY	Mfr. Part #	Digi-Key Part #
C8, C10	0.01 μ F	2	Kemet C315C103K1R5TA	399-4147-ND
C5, C6	0.1 μ F	2	Kemet C320C104K5R5TA	399-4264-ND
C2	1 μ F	1	TDK FK18X5R1E105K	445-8410-ND
C1, C4	10 μ F, tantalum	2	AVX TAP106K016SCS	478-1839-ND
C3, C7	(opt.) as needed	2		
J1, J2	jumper wire		selects reset state, gain of U2	
J3, J4	10-pin breakoff header	2	TE Connectivity 4-103185-0	A26513-40-ND
J5	(opt.) jumper wire		allows flexible SMA connections	
J6	(opt.) SMA	1	Linx CONSMA002 or 142-0701-301	CONSMA002-ND or J501-ND
R1-R4	(opt.) as needed	4		
U1	3.3V regulator	1	MCP1702-3302E	MCP1702-3302E-ND
U2, U4	dual 16-bit DAC	1	Analog Devices AD5689RBRUZ	AD5689RBRUZ-ND
U3	R-R op amp	1	Analog Devices AD8606ARZ	AD8606ARZ-ND

Note 1: Omit U4 if two outputs are sufficient. Also, Op amp U3 is optional, and many substitutions are possible.

Note 2: U2 and U4 can be difficult to solder. It's helpful to use hot air, or to use rosin-coated "Soder-Wick" for cleanup of accidental shorts.