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Change in menu Project

December Value	Change in menu Project									
Control Cont			Value	Description Printed Circuit Board	PackageReference	PartNumber XX####	Manufacturer Anv	Alternate PartNumber	Alternate Manufacturer	
Col. Col. Col. Col. Col. Col. Col. Col.	C2, C13,		330uF		SMT Radial K16					
Co. C. Co. C		8	3.3uF	CAP, CERM, 3.3uF, 50V, +/-10%, X7R, 1210	1210	GRM32DR71H335KA88	MuRata	-	-	
Col. Col. Col. Col. Col. Col. Col. Col.						L				
Col. Col. Col. Col. Col. Col. Col. Col.	C34									
Co. O. C.	C7, C35	2	330uF	CAP, AL, 330uF, 50V, +/-20%, 0.087 ohm, SMD	LH0	EMVY500GTR331MLH0 S	Nippon Chemi-Con			
Col. Col. Col. Col. Col. Col. Col. Col.		10	1uF	CAP, CERM, 1uF, 100V, +/-10%, X7R, 1210	1210	GRM32CR72A105KA35	MuRata			
CS. C. C.						L				
Cold	C36, C37,									
Col.		2	0.1uF	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0805	0805	08053C104KAT2A	AVX			
Control Cont		3	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603	GRM1885C1H101JA01	MuRata	-	-	
C-02		2	4.7uF	CAP, CERM, 4.7uF, 16V, +/-10%, X7R, 0805	0805	GRM21BR71C475KA73	MuRata	-	-	
C-02	C19 C21	3	0.47uF	CAP CERM 0.47uF 25V +/-10% X7R 0603	0603	L GRM188R71F474KA12	MuRata	_	-	
COLD 1 SOUTH COLD COSEN AND STOP COLD COSE COL	C49					D				
Col.	C22	1	1uF	CAP, CERM, 1uF, 25V, +/-10%, X/R, 0805	0805	GRM219R71E105KA88 D	MuRata			
COD 1 St. Lab CAPP. CERNAL (24) Print, 1775, 176, 2002 2002								-	-	
Col.								-	•	
Col.	C51	1	2.2uF	CAP, CERM, 2.2uF, 10V, +/-10%, X7R, 0603	0603	GRM188R71A225KE15	MuRata			
Display 2										
Minching Service, Round, R. 44 20 Minching Service, Round, R. 44 20 Minching Service, Round, R. 44 20 Minching Service, R. 45 Minching Service, M										
His Not IV	H1, H2, H3,		0.77	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips				-	•	
H8		4			Standoff	1902C	Kevstone	-	-	
MIT MIT	H8			•			-			
31 321 Corn Tern Black, 2008, 3 (Sept. TH 115 b) 275 Tern Tern Black (2008, 3 (Sept. TH 115 b) 275 Tern Tern Black (2008, 3 (Sept. TH 115 b) 275 Tern Tern Black (2008, 3 (Sept. The Sept. T		4		bumpon, Hernispnere, 0.44 x 0.20, Clear	Transparent Bumpon	SJ-SSUS (CLEAR)	SIVI			
38 1	J1									
EELT			ZXI							
LELI	L1, L2	2	15uH		SER2918	SER2918H-153KL	Coilcraft			
Col. Col. Col. Col. Col. Col. Col. Col.	LBL1	1		Thermal Transfer Printable Labels, 0.650" W x 0.200"		THT-14-423-10	Brady	-	-	
COLORS C	01 02 03	6	150V			SUM40N15-38	Vishav-Siliconix		None	
DS. 077	Q10, Q12,	Ü	1001	1000 E1, 1001, 1001, 407, 55174	DDI 711C	COMPONTO CO	Violity Gillourix		None	
Color		4	0.25V	Transistor, PNP, 40V, 0.2A, SOT-23	SOT-23	MMBT3906	Fairchild Semiconductor			
RS, R4, 4 2,06k RES, 2.06k chm, 1%, 0.1W, 0803 0803 CRCV/08032KGFFEA Vahay-Dake RS, R8, R8, R8, R8, R8, R8, R8, R8, R8, R8	Q13, Q17					LVWOFDOOFFD				
RES. 02 A										
R10, R14, R23, R26, R28, R28, R28, R28, R28, R28, R28, R28		7	0	DES 0 ohm 50/ 0.1W 0603	0603	ED L2GEVOROOV	Panacania			
R7. R9. A 2.21 RES, 2.21 ohm, 1%, 0.1W, 0603 0603 CRCW0603100KFKEA Vishay-Dale R18, R30, R32 R18, R37 2.2 RES, 2.20 hm, 5%, 0.1W, 0603 0603 CRCW0603100KFKEA Vishay-Dale R18, R37 2.2 R18, R37	R10, R14,	,	O	KES, 0 01111, 576, 0.11W, 0003	0003	EKJ-3GE TOKOOV	r anasonic			
R71, R9,										
R11, R49, R50	R7, R9,	4	2.21	RES, 2.21 ohm, 1%, 0.1W, 0603	0603	CRCW06032R21FKEA	Vishay-Dale			
R19, R36		3	100k	RES, 100k ohm, 1%, 0.1W, 0603	0603	CRCW0603100KFKEA	Vishav-Dale			
R13, 837 2	R50		0.0	DEC. 0.0 1 50/ 0.405W 0005	0005		-			
R16										
R18		1								
R19		1						Equivalent	Anv	
R21	R19	1	787	RES, 787 ohm, 1%, 0.1W, 0603	0603	CRCW0603787RFKEA	Vishay-Dale			
R27, R31								Equivolent	Anu	
R24, R33 2 20.0 RES, 20.0 shm, 1%, 0.1W, 0603 0603 CRCW060320R0EF Vishay-Dale R41 1 0 RES, 0 shm, 5%, 0.1W, 0603 0603 CRCW060300002DE Vishay-Dale R42 1 30.5k RES, 0 shm, 5%, 0.1W, 0603 0603 CRCW060310K0FKEA Vishay-Dale R43 1 10.0k RES, 10.0k shm, 1%, 0.1W, 0603 0603 CRCW060310K0FKEA Vishay-Dale R44 1 1.00k RES, 1.00k shm, 1%, 0.1W, 0603 0603 CRCW060310K0FKEA Vishay-Dale R44 1 1.00k RES, 1.00k shm, 1%, 0.1W, 0603 0603 CRCW06031K0FKEA Vishay-Dale R45, R46 2 20.0k RES, 2.00k shm, 1%, 0.1W, 0603 0603 CRCW06031K0FKEA Vishay-Dale R45, R46 1 820 RES, 2.00k shm, 1%, 0.1W, 0603 0603 CRCW06031K0FKEA Vishay-Dale R48 1 56, 0 RES, 56, 0 shm, 1%, 0.1W, 0603 0603 RC0603FR-07820RL Vishay-Dale R48 1 56, 0 RES, 56, 0 shm, 1%, 0.1W, 0603 0603 RC0603FR-07820RL Vishay-Dale R48 1 56, 0 RES, 56, 0 shm, 1%, 0.1W, 0603 0603 RC0603FR-07820RL Vishay-Dale R48 1 56, 0 RES, 56, 0 shm, 1%, 0.1W, 0603 0603 RC0603FR-07820RL Vishay-Dale R48 1 F4, 0 R49	R22, R23,							Equivalent	Any	
R41		2	20.0	RES. 20.0 ohm. 1% 0.1W 0603	0603	CRCW060320R0FKFA	Vishay-Dale			
R43	R41		0	RES, 0 ohm, 5%, 0.1W, 0603	0603	CRCW06030000Z0EA	Vishay-Dale			
R44		1								
R45	R44			RES, 1.00k ohm, 1%, 0.1W, 0603	0603	CRCW06031K00FKEA	Vishay-Dale			
R48										
Rx 1 6.49k RES, 6.49k ohm, 1%, 0.1W, 0603 0603 CRCW06036K49FKEA Vishay-Dale TP1, TP3 2 Red Test Point, Multipurpose, Red, TH Red Multipurpose Testpoint 5010 Keystone TP2, TP7, TP8, TP9 4 White Test Point, Multipurpose, White, TH White Multipurpose Testpoint 5012 Keystone TP4, TP5 2 Black Test Point, Multipurpose, Black, TH Black Multipurpose Testpoint 5011 Keystone TP6, TP13, TP14 3 Yellow Test Point, Compact, Yellow, TH Yellow Compact Testpoint 5009 Keystone U1, U2 2 Series of Adjustable Micropower Voltage Regulators, 8* SDC08A LP2951CSD National Semiconductor U3 1 Series of Adjustable Micropower Voltage Regulators, 8* SDC08A LP2951CSD National Semiconductor U4 1 LMV321DBV IC, Op-Amp Low Voltage Rail-to-Rail Output, 130 μA SOT23-5 LMV321DBV TI None C1, C28 0 470pF CAP, CERM, 470pF, 100V, +/-5%, COG/NP0, 0805 0805 GRM1865C1H101JA01										
Testpoint Test										
TP2, TP7, TP8, TP9	TP1, TP3	2	Red	Test Point, Multipurpose, Red, TH		5010	Keystone			
TP4, TP5 2 Black Test Point, Multipurpose, Black, TH Black Multipurpose Testpoint 5011 Keystone 1501 Test Point, Compact Testpoint 15009 Keystone 15009		4	White	Test Point, Multipurpose, White, TH	White Multipurpose	5012	Keystone			
Testpoint TP6, TP13, 3 Yellow Test Point, Compact, Yellow, TH Testpoint TP6, TP14 TP7, TP14 TP17 TP17 TP17 TP17 TP17 TP17 TP17 TP17		2	Black	Test Point, Multipurpose, Black, TH		5011	Kevstone			
Testpoint Price					Testpoint					
U1, U2 2 eg: 0603, used in PnP report LM5122MH TI - - -		3	Yellow	Lest Point, Compact, Yellow, TH		5009	Keystone			
U3		2			eg: 0603, used in	LM5122MH	ТІ	-	-	
Din LLP Din	U3	1				LP2951CSD	National Semiconductor			
Typ. C1, C28		1	LMV321DBV	pin LLP	SOT23-5	LMV321DBV	TI		None	
C18				Typ.					TRUTTE	
C25, C26, 0 1uF CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603 GRM188R71E105KA12 MuRata D C27, C44 0 1uF CAP, CERM, 1uF, 100V, +/-10%, X7R, 1210 1210 GRM32CR72A105KA35 MuRata L	C1, C28	0	470pF	CAP, CERM, 470pF, 100V, +/-5%, C0G/NP0, 0805	0805	GRM2165C2A471JA01	MuRata	-	-	
C29, C43 D D D C27, C44 0 1uF CAP, CERM, 1uF, 100V, +/-10%, X7R, 1210 1210 GRM32CR72A105KA35 MuRata L	C18	0	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603	GRM1885C1H101JA01	MuRata	-	-	
C29, C43 D D D C27, C44 0 1uF CAP, CERM, 1uF, 100V, +/-10%, X7R, 1210 1210 GRM32CR72A105KA35 MuRata L	C25, C26	0	1uF	CAP, CERM, 1uF, 25V, +/-10%, X7R. 0603	0603	D GRM188R71E105KA12	MuRata			
	C29, C43					D				
D2, D4 0 0.57V Diode, Schottky, 60V, 1A, SOD-123F SOD-123F PMEG6010CEH,115 NXP Semiconductor -						L				
	D2, D4	0	0.57V	Diode, Schottky, 60V, 1A, SOD-123F	SOD-123F	PMEG6010CEH,115	NXP Semiconductor	-	-	

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
FID1, FID2,	0		Fiducial mark. There is nothing to buy or mount.	Fiducial	N/A	N/A		
FID3								
Q4, Q6, Q8,	0	0.2V	Transistor, NPN, 40V, 0.2A, SOT-23	SOT-23	MMBT3904	Fairchild Semiconductor		
Q11, Q14,								
Q15								
Q9, Q18	0	0.25V	Transistor, PNP, 40V, 0.2A, SOT-23	SOT-23	MMBT3906	Fairchild Semiconductor		
R1, R25	0	8.2	RES 8.2 OHM 3/4W 5% 2010 SMD	2010 (5025 Metric)	CRCW20108R20JNEF	Vishay Dale	-	=
R6, R17,	0	0	RES, 0 ohm, 5%, 0.1W, 0603	0603	ERJ-3GEY0R00V	Panasonic	-	-
R40								
TP12	0	Yellow	Test Point, Compact, Yellow, TH	Yellow Compact	5009	Keystone		
				Testpoint				

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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