

Object	Property Name	Property Value
N01163 : N01163 (Wire ID = 1163)	Name	N01163

Object	Property Name	Property Value
GND : GND (Wire ID = 1167)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1171)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1173)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1179)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1183)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1191)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1195)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1205)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1209)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1231)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1278)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1280)	Name	GND

Object	Property Name	Property Value
V+ : V+ (Wire ID = 1408)	Name	V+

Object	Property Name	Property Value
V+ : V+ (Wire ID = 1410)	Name	V+

Object	Property Name	Property Value
N01163 : N01163 (Wire ID = 1440)	Name	N01163

Object	Property Name	Property Value
N01163 : N01163 (Wire ID = 1444)	Name	N01163

Object	Property Name	Property Value
N01163 : N01163 (Wire ID = 1449)	Name	N01163

Object	Property Name	Property Value
V+ : V+ (Wire ID = 1455)	Name	V+

Object	Property Name	Property Value
V+ : V+ (Wire ID = 1459)	Name	V+

Object	Property Name	Property Value
V+ : V+ (Wire ID = 1466)	Name	V+

Object	Property Name	Property Value
V+ : V+ (Wire ID = 1470)	Name	V+

Object	Property Name	Property Value
V+ : V+ (Wire ID = 1503)	Name	V+

Object	Property Name	Property Value
+3.3V : +3.3V (Wire ID = 1551)	Name	+3.3V

Object	Property Name	Property Value
+3.3V : +3.3V (Wire ID = 1553)	Name	+3.3V

Object	Property Name	Property Value
+3.3V : +3.3V (Wire ID = 1558)	Name	+3.3V

Object	Property Name	Property Value
GND : GND (Wire ID = 1603)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1627)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1629)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 1705)	Name	GND

Object	Property Name	Property Value
N01994 : N01994 (Wire ID = 1994)	Name	N01994

Object	Property Name	Property Value
GND : GND (Wire ID = 1998)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 2000)	Name	GND

Object	Property Name	Property Value
N02027 : N02027 (Wire ID = 2027)	Name	N02027

Object	Property Name	Property Value
+3.3V : +3.3V (Wire ID = 2050)	Name	+3.3V

Object	Property Name	Property Value
+3.3V : +3.3V (Wire ID = 2052)	Name	+3.3V

Object	Property Name	Property Value
+3.3V : +3.3V (Wire ID = 2074)	Name	+3.3V

Object	Property Name	Property Value
+3.3V : +3.3V (Wire ID = 2076)	Name	+3.3V

Object	Property Name	Property Value
N02090 : N02090 (Wire ID = 2090)	Name	N02090

Object	Property Name	Property Value
N02090 : N02090 (Wire ID = 2092)	Name	N02090

Object	Property Name	Property Value
GND : GND (Wire ID = 2158)	Name	GND

Object	Property Name	Property Value
N02027 : N02027 (Wire ID = 2315)	Name	N02027

Object	Property Name	Property Value
+3.3V : +3.3V (Wire ID = 2319)	Name	+3.3V

Object	Property Name	Property Value
N02027 : N02027 (Wire ID = 2334)	Name	N02027

Object	Property Name	Property Value
N02027 : N02027 (Wire ID = 2338)	Name	N02027

Object	Property Name	Property Value
N02027 : N02027 (Wire ID = 2354)	Name	N02027

Object	Property Name	Property Value
N02027 : N02027 (Wire ID = 2356)	Name	N02027

Object	Property Name	Property Value
N02027 : N02027 (Wire ID = 2360)	Name	N02027

Object	Property Name	Property Value
N02027 : N02027 (Wire ID = 2370)	Name	N02027

Object	Property Name	Property Value
N02027 : N02027 (Wire ID = 2374)	Name	N02027

Object	Property Name	Property Value
V+ : V+ (Wire ID = 2415)	Name	V+

Object	Property Name	Property Value
GND : GND (Wire ID = 2458)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 2601)	Name	GND

Object	Property Name	Property Value
N02633 : N02633 (Wire ID = 2633)	Name	N02633

Object	Property Name	Property Value
N02027 : N02027 (Wire ID = 2665)	Name	N02027

Object	Property Name	Property Value
GND : GND (Wire ID = 2684)	Name	GND

Object	Property Name	Property Value
+3.3V : +3.3V (Wire ID = 2743)	Name	+3.3V

Object	Property Name	Property Value
+3.3V : +3.3V (Wire ID = 2745)	Name	+3.3V

Object	Property Name	Property Value
+3.3V : +3.3V (Wire ID = 2762)	Name	+3.3V

Object	Property Name	Property Value
GND : GND (Wire ID = 2820)	Name	GND

Object	Property Name	Property Value
GND : GND (Wire ID = 3302)	Name	GND

Object	Property Name	Property Value
N03337 : N03337 (Wire ID = 3337)	Name	N03337

Object	Property Name	Property Value
N03337 : N03337 (Wire ID = 3341)	Name	N03337

Object	Property Name	Property Value
N03337 : N03337 (Wire ID = 3345)	Name	N03337

Object	Property Name	Property Value
+3.3V : +3.3V (Wire ID = 3382)	Name	+3.3V

Object	Property Name	Property Value
V+ : V+ (Wire ID = 3679)	Name	V+

Object	Property Name	Property Value
V+ : V+ (Wire ID = 3683)	Name	V+

Object	Property Name	Property Value
V+ : V+ (Wire ID = 3688)	Name	V+

Object	Property Name	Property Value
V+ : V+ (Wire ID = 3694)	Name	V+

Object	Property Name	Property Value
N03701 : N03701 (Wire ID = 3701)	Name	N03701

Object	Property Name	Property Value
N03701 : N03701 (Wire ID = 3705)	Name	N03701

Object	Property Name	Property Value
N03701 : N03701 (Wire ID = 3710)	Name	N03701

Object	Property Name	Property Value
N03701 : N03701 (Wire ID = 3716)	Name	N03701

Object	Property Name	Property Value
N03701 : N03701 (Wire ID = 3723)	Name	N03701

Object	Property Name	Property Value
GND : GND (Wire ID = 3773)	Name	GND

Object	Property Name	Property Value
N03811 : N03811 (Wire ID = 3811)	Name	N03811

Object	Property Name	Property Value
N03811 : N03811 (Wire ID = 3813)	Name	N03811

Object	Property Name	Property Value
V+ : V+ (Wire ID = 3878)	Name	V+

Object	Property Name	Property Value
+3.3V : +3.3V (Wire ID = 3936)	Name	+3.3V

Object	Property Name	Property Value
N03811 : N03811 (Wire ID = 4407)	Name	N03811

Object	Property Name	Property Value
N01163 : N01163 (Wire ID = 4555)	Name	N01163

Object	Property Name	Property Value
N01163 : N01163 (Wire ID = 4557)	Name	N01163

Object	Property Name	Property Value
N01163 : N01163 (Wire ID = 4561)	Name	N01163

Object	Property Name	Property Value
N01163 : N01163 (Wire ID = 4565)	Name	N01163

Object	Property Name	Property Value
N02633 : N02633 (Wire ID = 5959)	Name	N02633

Object	Property Name	Property Value
GND : GND (Wire ID = 5964)	Name	GND

Object	Property Name	Property Value
GND	Name	GND
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND

Object	Property Name	Property Value
GND	Name	GND
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND

Object	Property Name	Property Value
V+	Name	V+
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC

Object	Property Name	Property Value
+3.3V	Name	+3.3V
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC

Object	Property Name	Property Value
GND	Name	GND
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND

Object	Property Name	Property Value
GND	Name	GND
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND

Object	Property Name	Property Value
GND	Name	GND
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND

Object	Property Name	Property Value
+3.3V	Name	+3.3V
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC

Object	Property Name	Property Value
GND	Name	GND
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND

Object	Property Name	Property Value
+3.3V	Name	+3.3V
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC

Object	Property Name	Property Value
GND	Name	GND
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND

Object	Property Name	Property Value
V+	Name	V+
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC

Object	Property Name	Property Value
GND	Name	GND
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND

Object	Property Name	Property Value
GND	Name	GND
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND

Object	Property Name	Property Value
GND	Name	GND
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND

Object	Property Name	Property Value
+3.3V	Name	+3.3V
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC

Object	Property Name	Property Value
GND	Name	GND
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND

Object	Property Name	Property Value
GND	Name	GND
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND

Object	Property Name	Property Value
+3.3V	Name	+3.3V
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC

Object	Property Name	Property Value
GND	Name	GND
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND

Object	Property Name	Property Value
V+	Name	V+
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC

Object	Property Name	Property Value
+3.3V	Name	+3.3V
	Source Library	C:\CADENCE\SPB_16.5\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC

Object	Property Name	Property Value
MBARI_TITLEBLOCK : MBARI_TITLEBLOCK	Path Name	MBARI_TITLEBLOCK
	Schematic Path	/
	ID	1
	Doc	10020877
	Rev	A
	Engineer	SCOTT JENSEN
	OrgAddr4	
	OrgAddr3	
	OrgAddr2	
	OrgAddr1	
	OrgName	
	Cage Code	
	RevCode	
	Title	ESP - SOLENOID PWM DRIVER
	Layout	JOSE ROSAL
	Name	MBARI_TITLEBLOCK
	Design Name	PWM_DRIVER-3
	Design File Name	J:\PCB_LAYOUT\OPEN_WORK_SPACE\10020877RA\PWM_DRIVER-3\PWM_DRIVER-3\
	Design Create Date	Wednesday, July 25, 2012
	Design Modify Date	Tuesday, August 07, 2012
	Design Create Time	14:59:11
	Design Modify Time	08:45:46
	Schematic Name	SCHEMATIC1
	Schematic Create Date	Wednesday, July 25, 2012
	Schematic Modify Date	Tuesday, August 07, 2012
	Schematic Create Time	14:59:12
	Schematic Modify Time	08:45:48
	Schematic Page Count	0
	Schematic Page Number	0
	Page Size	B
	Page Create Date	Wednesday, July 25, 2012
	Page Modify Date	Tuesday, August 07, 2012
	Page Create Time	14:59:11
	Page Modify Time	08:45:47
	Source Library	\\WATER\SCHEMATIC_SYMBOLS\MBARI_TITLEBLOCKS.OLB
	Source Symbol	MBARI_TITLEBLOCK
	Layout File	
	Page Count	1
	Page Number	1

Object	Property Name	Property Value
INS380 : R8	Name	INS380
	ID	39
	Reference	R8
	Designator	
	Part Reference	R8
	Value	102.0K
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	RESC2012X50N
	PART_NUMBER	CRCW0805102KFKEA
	Package Size	0805
	Temperature Coefficient	100ppm/K
	Tolerance	1%
	Rated Power	0.125W
	TMP Manufacturer	Vishay
	TMP Manufacturer PN	CRCW0805102KFKEA
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	DISCRETE

Object	Property Name	Property Value
1 : R8/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	+3.3V
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : R8/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N03337
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS977 : Q1	Name	INS977
	ID	93
	Reference	Q1
	Designator	
	Part Reference	Q1
	Value	DMG2302U-7
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PART_NUMBER	DMG2302U-7
	Description	MOSFET N-CH 20V 4.2A SOT23
	Package Size	TO-236-3, SC-59, SOT-23-3
	Rated Power	800mW
	TMP Manufacturer	Diodes Inc
	TMP Manufacturer PN	DMG2302U-7
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	DISCRETE
	PCB Footprint	SOT92P240X120R-3N_123

Object	Property Name	Property Value
D : Q1/D	Name	D
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N03701
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
G : Q1/G	Name	G
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N03811
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
S : Q1/S	Name	S
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS349 : C4	Name	INS349
	ID	36
	Reference	C4
	Designator	
	Part Reference	C4
	Value	0.10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	CAPC2012X100N
	PART_NUMBER	C0805C104K5RAC
	Description	CAP .10UF 50V CERAMIC X7R 0805
	Package Size	0805
	Dielectric Type	Ceramic
	Temperature Coefficient	X7R
	Tolerance	10%
	Rated Voltage	50V
	TMP Manufacturer	Kemet
	TMP Manufacturer PN	C0805C104K5RAC
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	DISCRETE
	PART TYPE	

Object	Property Name	Property Value
1 : C4/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	+3.3V
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : C4/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS400 : R9	Name	INS400
	ID	42
	Reference	R9
	Designator	
	Part Reference	R9
	Value	953.0K
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	RESC2012X50N
	PART_NUMBER	CRCW0805953KFKEA
	Package Size	0805
	Temperature Coefficient	100ppm/K
	Tolerance	1%
	Rated Power	0.125W
	TMP Manufacturer	Vishay
	TMP Manufacturer PN	CRCW0805953KFKEA
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	DISCRETE

Object	Property Name	Property Value
1 : R9/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N03337
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : R9/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS561 : U2	Name	INS561
	ID	62
	Reference	U2
	Designator	
	Part Reference	U2
	Value	ADP1720ARMZ-3.3-R7
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	SOP65P490X110-8N
	PART_NUMBER	ADP1720ARMZ-3.3-R7
	Description	IC REG LDO HV 50MA 3.3V 8-MSOP
	Package Size	8-TSSOP, 8-MSOP (0.118", 3.00mm Width)
	TMP Manufacturer	Analog Devices Inc
	TMP Manufacturer PN	ADP1720ARMZ-3.3-R7
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	IC
	DESC	MicroPower Linear Regulator
	MAN	Analog Devices
	PN	ADP1720

Object	Property Name	Property Value
G1 : U2/G1	Name	G1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
G5 : U2/G5	Name	G5
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
G6 : U2/G6	Name	G6
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
G7 : U2/G7	Name	G7
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
G8 : U2/G8	Name	G8
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
IN : U2/IN	Name	IN
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	V+
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
OUT : U2/OUT	Name	OUT
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	+3.3V
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
EN : U2/EN	Name	EN
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	N01163
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
INS454 : D1	Name	INS454
	ID	48
	Reference	D1
	Designator	
	Part Reference	D1
	Value	ES2AA-13-F
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	DIOM5226X230N
	CLASS	DISCRETE
	ICA_MFR_NAME	
	ICA_PARTNUM	
	TMP Manufacturer PN	ES2AA-13-F
	TMP Manufacturer	Diodes Inc
	Rated Voltage	920mV @ 2A
	Package Size	DO-214AC, SMA
	Description	DIODE FAST REC 2A 50V SMA
	PART_NUMBER	ES2AA-13-F

Object	Property Name	Property Value
ANODE : D1/ANODE	Name	ANODE
	Number	A
	Swap Id	-1
	Type	Passive
	Net Name	N03701
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : D1/CATHODE	Name	CATHODE
	Number	C
	Swap Id	-1
	Type	Passive
	Net Name	V+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS516 : U1	Name	INS516
	ID	55
	Reference	U1
	Designator	
	Part Reference	U1
	Value	LTC6992HS6-1#TRMPBF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	SOT95P280X100-6N
	PART_NUMBER	LTC6992HS6-1#TRMPBF
	Description	IC OSC SILICON 1MHZ TSOT23-6
	Package Size	SOT-23-6 Thin, TSOT-23-6
	Supply Voltage	2.25 V ~ 5.5 V
	TMP Manufacturer	Linear Technology
	TMP Manufacturer PN	LTC6992HS6-1#TRMPBF
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	IC

Object	Property Name	Property Value
MOD : U1/MOD	Name	MOD
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N02027
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
SET : U1/SET	Name	SET
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	N02633
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : U1/GND	Name	GND
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
DIV : U1/DIV	Name	DIV
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	N03337
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : U1/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	+3.3V
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
OUT : U1/OUT	Name	OUT
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	N03811
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
INS318 : R7	Name	INS318
	ID	33
	Reference	R7
	Designator	
	Part Reference	R7
	Value	402.0K
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PART_NUMBER	CRCW0805402KFKEA
	Package Size	0805
	Temperature Coefficient	100ppm/K
	Tolerance	1%
	Rated Power	0.125W
	TMP Manufacturer	Vishay
	TMP Manufacturer PN	CRCW0805402KFKEA
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	DISCRETE
	PCB Footprint	RESC2012X50N

Object	Property Name	Property Value
1 : R7/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N02633
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : R7/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS216 : R4	Name	INS216
	ID	21
	Reference	R4
	Designator	
	Part Reference	R4
	Value	13.7K
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	RESC2012X50N
	PART_NUMBER	CRCW080513K7FKEA
	Package Size	0805
	Temperature Coefficient	100ppm/K
	Tolerance	1%
	Rated Power	0.125W
	TMP Manufacturer	Vishay
	TMP Manufacturer PN	CRCW080513K7FKEA
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	DISCRETE

Object	Property Name	Property Value
1 : R4/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	+3.3V
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : R4/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N02027
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS114 : R1	Name	INS114
	ID	9
	Reference	R1
	Designator	
	Part Reference	R1
	Value	10.0K
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	RESC2012X50N
	CLASS	DISCRETE
	ICA_MFR_NAME	
	ICA_PARTNUM	
	TMP Manufacturer PN	CRCW080510K0FKEA
	TMP Manufacturer	Vishay
	Rated Power	0.125W
	Tolerance	1%
	Temperature Coefficient	100ppm/K
	Package Size	0805
	Description	RES 10.0K OHM 1/8W 1% 0805 SMD
	PART_NUMBER	CRCW080510K0FKEA

Object	Property Name	Property Value
1 : R1/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	V+
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : R1/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N01163
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS891 : K1	Name	INS891
	ID	82
	Reference	K1
	Designator	
	Part Reference	K1
	Value	455039
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	BURKERT_0330
	PART_NUMBER	455039
	Description	SOLENOID VALVE,TYPE 0330,12VDC,8W,145PSI
	TMP Manufacturer	BURKERT
	TMP Manufacturer PN	455039
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	DISCRETE

Object	Property Name	Property Value
1A : K1/1A	Name	1A
	Number	1A
	Swap Id	-1
	Type	Passive
	Net Name	N03701
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
1B : K1/1B	Name	1B
	Number	1B
	Swap Id	-1
	Type	Passive
	Net Name	N03701
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
2B : K1/2B	Name	2B
	Number	2B
	Swap Id	-1
	Type	Passive
	Net Name	V+
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
2A : K1/2A	Name	2A
	Number	2A
	Swap Id	-1
	Type	Passive
	Net Name	V+
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
3B : K1/3B	Name	3B
	Number	3B
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	4
	Is No Connect	True

Object	Property Name	Property Value
3A : K1/3A	Name	3A
	Number	3A
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	5
	Is No Connect	True

Object	Property Name	Property Value
INS287 : C3	Name	INS287
	ID	30
	Reference	C3
	Designator	
	Part Reference	C3
	Value	0.10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	CAPC2012X100N
	CLASS	DISCRETE
	ICA_MFR_NAME	
	ICA_PARTNUM	
	TMP Manufacturer PN	C0805C104K5RAC
	TMP Manufacturer	Kemet
	Rated Voltage	50V
	Tolerance	10%
	Temperature Coefficient	X7R
	Dielectric Type	Ceramic
	Package Size	0805
	Description	CAP .10UF 50V CERAMIC X7R 0805
	PART_NUMBER	C0805C104K5RAC
	PART TYPE	

Object	Property Name	Property Value
1 : C3/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N02027
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : C3/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS185 : C2	Name	INS185
	ID	18
	Reference	C2
	Designator	
	Part Reference	C2
	Value	0.18uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	CAPC2013X135N
	PART_NUMBER	GRM21BR71H184KA01L
	Description	CAP CER 0.18UF 50V 10% X7R 0805
	Package Size	0805 (2012 Metric)
	Dielectric Type	Capacitors
	Temperature Coefficient	X7R
	Tolerance	−10%
	Rated Voltage	50V
	TMP Manufacturer	Murata Electronics North America
	TMP Manufacturer PN	GRM21BR71H184KA01L
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	DISCRETE
	PART TYPE	

Object	Property Name	Property Value
1 : C2/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N02090
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : C2/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS83 : C1	Name	INS83
	ID	6
	Reference	C1
	Designator	
	Part Reference	C1
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	CAPC3216X180N
	PART_NUMBER	GMK316AB7106KL-TR
	Description	CAP CER 10UF 35V 10% X7R 1206
	Package Size	1206 (3216 Metric)
	Dielectric Type	Capacitors
	Temperature Coefficient	X7R
	Tolerance	-10%
	Rated Voltage	35V
	TMP Manufacturer	Taiyo Yuden
	TMP Manufacturer PN	GMK316AB7106KL-TR
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	DISCRETE
	PART TYPE	

Object	Property Name	Property Value
1 : C1/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	V+
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : C1/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS236 : R5	Name	INS236
	ID	24
	Reference	R5
	Designator	
	Part Reference	R5
	Value	2.67K
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	RESC2012X50N
	CLASS	DISCRETE
	ICA_MFR_NAME	
	ICA_PARTNUM	
	TMP Manufacturer PN	CRCW08052K67FKEA
	TMP Manufacturer	Vishay
	Rated Power	0.125W
	Tolerance	1%
	Temperature Coefficient	100ppm/K
	Package Size	0805
	PART_NUMBER	CRCW08052K67FKEA

Object	Property Name	Property Value
1 : R5/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N02027
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : R5/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS134 : R2	Name	INS134
	ID	12
	Reference	R2
	Designator	
	Part Reference	R2
	Value	TBD
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	RESC2012X50N
	PART_NUMBER	TBD_R0805
	Description	TO BE DETERMINED, HEIGHT 0.5mm
	Package Size	0805
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	DISCRETE
	Tolerance	

Object	Property Name	Property Value
1 : R2/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N01163
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : R2/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS256 : R6	Name	INS256
	ID	27
	Reference	R6
	Designator	
	Part Reference	R6
	Value	160.0K
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	RESC2012X50N
	CLASS	DISCRETE
	ICA_MFR_NAME	
	ICA_PARTNUM	
	TMP Manufacturer PN	CRCW0805160KJNEA
	TMP Manufacturer	Vishay
	Rated Power	0.125W
	Tolerance	5%
	Temperature Coefficient	200ppm/K
	Package Size	0805
	PART_NUMBER	CRCW0805160KJNEA

Object	Property Name	Property Value
1 : R6/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	V+
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : R6/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N02027
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS154 : R3	Name	INS154
	ID	15
	Reference	R3
	Designator	
	Part Reference	R3
	Value	10.0K
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	RESC2012X50N
	PART_NUMBER	CRCW080510K0FKEA
	Description	RES 10.0K OHM 1/8W 1% 0805 SMD
	Package Size	0805
	Temperature Coefficient	100ppm/K
	Tolerance	1%
	Rated Power	0.125W
	TMP Manufacturer	Vishay
	TMP Manufacturer PN	CRCW080510K0FKEA
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	DISCRETE

Object	Property Name	Property Value
1 : R3/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	+3.3V
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : R3/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N01994
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS828 : U3	Name	INS828
	ID	71
	Reference	U3
	Designator	
	Part Reference	U3
	Value	TPS3808G33DBVR
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	SOT95P280X145-6N
	PART_NUMBER	TPS3808G33DBVR
	Description	IC VOLT SUPERVISOR 3.3V SOT23-6
	Package Size	SOT-23-6
	TMP Manufacturer	Texas Instruments
	TMP Manufacturer PN	TPS3808G33DBVR
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	IC

Object	Property Name	Property Value
RST : U3/RST	Name	RST
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N02027
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
MR : U3/MR	Name	MR
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	N01994
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : U3/GND	Name	GND
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
VDD : U3/VDD	Name	VDD
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	+3.3V
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
SNS : U3/SNS	Name	SNS
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	+3.3V
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
Ct : U3/Ct	Name	Ct
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	N02090
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
INS1531 : C5	Name	INS1531
	ID	104
	Reference	C5
	Designator	
	Part Reference	C5
	Value	1.0uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PART_NUMBER	C1206C105K5RAC
	Description	CAP CER 1.0UF 50V X7R 1206
	Package Size	1206
	Dielectric Type	Ceramic
	Temperature Coefficient	X7R
	Tolerance	10%
	Rated Voltage	50V
	TMP Manufacturer	Kemet
	TMP Manufacturer PN	C1206C105K5RAC
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	DISCRETE
	PCB Footprint	CAPC3216X110N
	PART TYPE	

Object	Property Name	Property Value
1 : C5/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	+3.3V
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : C5/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS54 : J1	Name	INS54
	ID	2
	Reference	J1
	Designator	
	Part Reference	J1
	Value	70543-0002
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	MOLEX_70543-3PIN
	PART_NUMBER	70543-0002
	Description	CONN HEADER 3POS .100 VERT GOLD
	Package Size	0.240" (6.10mm)
	TMP Manufacturer	Molex Inc
	TMP Manufacturer PN	70543-0002
	ICA_PARTNUM	
	ICA_MFR_NAME	
	CLASS	IO

Object	Property Name	Property Value
1 : J1/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	V+
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J1/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N01163
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J1/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	GND
	Order	2
	Is No Connect	False