









V-SHAPE OR HOLES

Bill of Materia state   Com    Under Data From: DE-130817.PriPeb   DE-					
oject: riant:		DE-130817.PriPcb None			
ation Date:5.2018. 14:21:22 nt Date:43233 43233,59825					
n Dunc		40200,0002			
otprint	Comment	LibRef	Designator	Description	Quantity
05	10uF	C0805	C1, C5, C7, C9, C15, C16, C1 C31, C32, C34, C35, C36, C53	Ceramic Chip Capacitor - Stand	sard 19
03	100nF	C0603	C81, C62 C2, C3, C4, C6, C8, C10, C13, C20, C22, C23, C24, C26, C27, C30, C33, C37, C39, C40, C41, C44, C45, C46, C47, C49, C50, C57, C60, C82, C83	Ceramic Chip Capacitor - Stand	tard 3
03	22pF	C0603	C11. C12	Ceramic Chip Capacitor - Stand	dard 2
)3 PPR5-	1uF 1000uF	C0603 EKA00DD4	C25, C48 C38	Aluminum Electrolutic Canacito	sard 2
16 PPR2-	EKA00AA24	EKA00AA24	C52, C56	Style with Long Leads: 1000uF Aluminum Electrolytic Capacito	2
11 52-2.5	0 VP52BY104	0 VP52BY104	C55	Style with Long Leads: 47uF, 3 Dipped Radial Multilayer Ceran X7R: 100nF	1
PPR7. (35.5	EKA00JL42 0 VP60BA104	0		Aluminum Electrolytic Capacito Style with Long Leads: 2200uF Dipped Radial Multilayer Ceran	2
		₩ <b>9</b> 60BA104		COG (NPO): 100nF, 100V	1
A T23_3	1N4001 SM712	10MQ060N 824022	D1, D2 D3	Schottky Rectifier TVS Diode WE-TVS-Standard,	VRWM-
SC-SC 3-2-477	3V3	MM3Z33VT	ES4, D5, D6, D7, D8, D9, D10, I	Zener Voltage Regulator, 300 r SOD-323, Pb-Free, Tape and F	8
V		BAS321 BZMMSZ12	D12	General-purpose Diode Zener Voltage Regulator, 500 n SOD-123, Pb-Free, Tape and F	1 16
V A-5VD	SRA-5VDC-			SPDT PCB relay 5Vdc coil	16
ID-080	l	74279202	811, K2, K3, K4, K5, K6, K7, K8 K11, K12, K13, K14, K15, K16 L2	SMD EMI Suppression Ferrite I	1
R2X3	SPI2_EXP	Header 3X2	P1	CBF, Z = 120 Ohm Header, 3-Pin, Dual row	1
R1X2 R1X5 R2X7	SPI2_EXP 10K NTC HC12_RAD nRF905	Header 2 <b>G</b> leader 5 Header 7X2	P2 P3	Header, 2-Pin Header, 5-Pin Header, 7-Pin, Dual row	1
R2X4 R1X5	NRF24L01 ULINK_ICS TERMINAL	Header 4X2 Header 5	P5 P6	Header, 4-Pin, Dual row Header, 5-Pin	1
RMINA DK 3	TERMINAL BLOK 3	TERMINAL BLOK 3	P7, P9, P10, P12, P13, P14, P P19, P20, P21, P22, P24, P25	3 pinski terminal blok konektor	1
RMINA OK 2	TERMINAL BLOK 2	BLOK 2	P8, P30, P31, P32, P33, P34, P37, P38, P39, P40, P41, P42 P45, P46	2 pinski terminal blok	16
R2X2 R1X8	DIN_VCC DIGITAL_IN	Header 2X2 Pldäder 8	P11 P16	Header, 2-Pin, Dual row Header, 8-Pin	1
R1X8 R2X2 R1X6	DIN_VCC DIGITAL_IN DIN_VSS I2C_PWM_I	Header 2X2 H <b>éä</b> der 6	P23 P28	Header, 2-Pin, Dual row Header, 8-Pin Header, 2-Pin, Dual row Header, 6-Pin	1
R1X6	I2C_PWM_	Header 6	P29	Header, 6-Pin	1
R2X9	1 Header 9X2 BSS138LT1	Header 9X2 BSS138LT1	P47 Q1, Q2, Q3	Header, 9-Pin, Dual row Power MOSFET, 200 mA, 50 V	1
3-318- _V T23_N	MMBT5551	BC817	Q4, Q5, Q6, Q7, Q24, Q25, Q2 Q45, Q46, Q47, Q64, Q65, Q6	Header, 9-Pin, Dual row Power MOSFET, 200 mA, 50 V 3-Pin SOT-23, Tape and Reel NPN General-purpose Transist	or 16
T23 N	MMBT5401	BC807	08 040 042 044 046 047	PNP General-purpose Transist	or 31
120_1		DOG!	Q28, Q30, Q32, Q34, Q40, Q4 Q48, Q50, Q52, Q54, Q60, Q6 Q68, Q70, Q72, Q74, Q80, Q8	THE CONTRACTOR THE ISSUE	
-220AE	IRF540N	IRF540N	Q9, Q11, Q13, Q15, Q29, Q31 Q49, Q51, Q53, Q55, Q69, Q7	HEXFET Power MOSFET	16
T23_N	BSS123	BSS123	Q18, Q19, Q20, Q21, Q36, Q3 Q56, Q57, Q58, Q59, Q76, Q7	N-channel Enhancement Mode	16
A-0603	820R	ERAV	Q56, Q57, Q58, Q59, Q76, Q7	MOSFET  Metal Film Thermosensitive Ch 0.56 Ohm to 10k Ohm Range,	1
A-0603	2K2	ERAV	R2, R41, R43	Tolerance, 0603 Size, 0.063 W Metal Film Thermosensitive Ch	3
A-0603	NF	ERAV	R3	0.56 Ohm to 10k Ohm Range, I Tolerance, 0603 Size, 0.063 W Metal Film Thermosensitive Ch	1
A-0603	100	EDASV ED	R4, R5, R23, R24, R25, R26, F	0.56 Ohm to 10k Ohm Range, I Tolerance, 0603 Size, 0.063 W Restroader Think Film Chin R.	21
		ERAV, ERA ERAV, ERA ERAV, ERA ERAV, ERA ERAV, ERA ERAV, ERA ERAV, ERA	R29, R30, R31, R32, R33, R34 R37, R38, R40, R42, R44	0.56 Ohm to 10k Ohm Range, 1 Tolerance, 0903 Size, 0.063 W Rectangular Thick Film Chip R: Ohm to 330k Ohm Range, 0.19 Tolerance, 0603 Size, 0.063 W Thick Film Chip Resistor, 10 Ohm Range, 0.1% and 0.5% T 0603 Size, 0.063 W, Metal Film Thermosensitive Chip Resis	
		IERAV. ERA			
A-0603	100R	ERAV ERA3Y	R6, R7	Rectangular Thick Film Chip Ro Ohm to 330k Ohm Range, 0.19	2
A-0603	OR	ERA3Y, ER	R6, R145		2
				Tolerance, 0603 size, 0.063 W Rectangular Thick Film Chip Ri Ohm to 330k Ohm Range, 0.19 Tolerance, 0603 Size, 0.063 W Thermosensitive Chip Resistor, 10k Ohm Range, 5% Tolerance 0.063 W	
A-0603	330R	ERAV, ERA ERAV	R9, R15, R18	Metal Film Thermosensitive Ch 0.56 Ohm to 10k Ohm Range, 1 Tolerance, 0603 Size, 0.063 W Thick Film Chip Resistor, 10 Ol Ohm Range, 0.1% and 0.5% T 0603 Size, 0.063 W, Metal Film Thermosensitive Chip Resistor,	3
A-0603	470R	ERAV	R10, R12	Metal Film Thermosensitive Ch 0.56 Ohm to 10k Ohm Range,	2
A-0806	820R	ERA6Y	R11, R17	Tolerance, 0603 Size, 0.063 W Rectangular Thick Film Chin Re	2
A-0806	10R	FRASY	R13, R16	Ohm to 1M Ohm Range, 0.1% Tolerance, 0805 Size, 0.1 W Rectangular Thick Film Chip Re	
A-0806			R14	Ohm to 1M Ohm Range, 0.1% Tolerance, 0805 Size, 0.1 W Rectangular Thick Film Chip Re	1
A-0603	510P	ERAV	R19	Ohm to 1M Ohm Range, 0.1% Tolerance, 0805 Size, 0.1 W Metal Film Thermosensitive Ch	
	J.UR.			0.56 Ohm to 10k Ohm Range, 1	
A-0806	1K	ERA6Y	R20, R51, R53, R57, R59, R67 R70, R75, R77, R81, R83, R91 R94, R99, R101, R105, R107, R117, R118, R123, R125, R12	Rectangular Thick Film Chip Re Ohm to 1M Ohm Range, 0.1% Tolerance, 0805 Size, 0.1 W	33
A-0806	330R	ERA6Y	R139, R140, R141, R142 R21	Rectangular Thick Film Chip Ro Ohm to 1M Ohm Range, 0.1%	1
A-0603	1K	ERAV	R22	Tolerance, 0805 Size, 0.1 W Metal Film Thermosensitive Ch	1
				0.56 Ohm to 10k Ohm Range, I Tolerance, 0603 Size, 0.063 W Metal Film Thermosensitive Ch	
A-0603	100K	ERAV	R39	0.56 Ohm to 10k Ohm Range	1
A-0603	330K	ERAV	R45	Tolerance, 0603 Size, 0.063 W Metal Film Thermosensitive Ch 0.56 Ohm to 10k Ohm Range, I Tolerance, 0603 Size, 0.063 W	1