



All resistors are 1% tolerance unless otherwise indicated
 All capacitors are X7R or COG dielectric unless otherwise indicated

Index	Description	Part Value	Designator	Voltage/Power Rating	Package	Quantity	Manufacturer PN	Fitted
1	LOGO Automotive		LOGO Automotive			1		Fitted
2	Testpoint		BBM, BBP, V5V, VANA, VB, VBS, VCP, VPRE			8		Fitted
3	Ceramic Capacitor, Multilayer, Ceramic, 16V, 5% +Tol, 5% -Tol, X7R, 15% TC, 0.068uF, Surface Mount, 0603	68nF	C3, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61	16V	0603	19	C0603C6834RACU	Fitted
4	Multilayer Ceramic Capacitor, 100 pF, 50 V, ± 5%, COG (NPO), 0402 [1005 Metric]	100pF	C4, C5, C6, C7	50V	0402	4	C0402C101J5GACTU	Fitted
5	Cap Ceramic 0.068uF 1000V COG 5% Pad SMD 1210 125C Automotive T/R	6.8nF	C8, C10	1000V	1210	0	C1210C682J0GACAU0	Not Fitted
6	Cap Ceramic 0.068uF 1000V COG 5% Pad SMD 1210 125C Automotive T/R	6.8nF	C9, C11	1000V	1210	0	C1210C682J0GACAU0	Not Fitted
7	Ceramic Capacitor, Multilayer, Ceramic, 100V, 10% +Tol, 10% -Tol, X7R, ±15% TC, 10nF, Surface Mount, 0402 inch	10nF	C19	100V	0402	0	CL05B103KCV5PNC	Not Fitted
8	0603 25 V 1 uF ±10 % Tolerance X7R SMT Multilayer Ceramic Chip Capacitor	1uF	C20	25V	0603	1	TMK107A87105KAHT	Fitted
9	Cap Ceramic 0.47uF 25V X7R 10% Pad SMD 0603 125C Low ESR Automotive AEC-Q200 T/R	470nF	C21	25V	0603	1	CGA3E3X7R1E474K080AB	Fitted
10	Cap Ceramic 2.2uF 250V X7T 20% SMD 5.7 x 5.0 mm 125 C Plastic T/R	2.2uF	C22, C88	250V	2220	2	CGA9P3X7T2E225M250KA	Fitted
11	Cap Ceramic 0.1uF 250V X7T 20% SMD 0805 125°C Blister Plastic T/R	100nF	C23	250V	0805	1	CGA4I3X7T2E104M125AA	Fitted
12	Cap Cer 0805 100NF 100V X7R 5%	100nF	C24	100V	0805	1	C0805C224J1RECAUTO	Fitted
13	WCAP-CSGP 0402 [1005Metric] Ceramic Capacitor 0.039uF 0.020W 1.00mmx0.50mm X7R ±10% 1000pF	1nF	C24B, C62B	16V	0402	2	885012205025	Fitted
14	Cap Ceramic 100pF 16V COG 10% SMD 0402 125°C Paper T/R	100pF	C24C	16V	0402	1	VJ0402A101KXJPW1BC	Fitted
15	Cap Cer 0805 220NF 100V X7R 5%	220nF	C25, C27, C29, C31, C33, C36, C37, C39, C41, C85, C89, C94, C95, C97, C99, C101, C103, C105, C107, C108	100V	0805	0	C0805C224J1RECAUTO	Not Fitted
16	Cap Cer 0.1uF 16V X7R 0603	100nF	C26, C28, C30, C32, C34, C35, C38, C40, C42, C43, C90, C93, C96, C98, C100, C102, C104, C106, C109	16V	0603	19	C0603C104I4RAC3190	Fitted
17	Multilayer Ceramic Capacitor, 0.022 uF, 100 V, ± 10%, X7R, 0603 [1608 Metric]	22nF	C62, C63, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84	100V	0603	22	C0603C223K1RACTU	Fitted
18	CL21 Series 10 nF 100 V ±10% Tolerance X7R SMT Multilayer Ceramic Capacitor	10nF	C91	100V	0805	1	CL21B103KANNNC	Fitted
19	1210 100V X7R 4.7uF 10% automotive grade multilayer ceramic capacitor	4.7uF	C92	100V	1210	1	12101C475K4T2A	Fitted
20	ESD SMD Auto X7R 0805 (2012Metric) Ceramic Capacitor 0.079uF 0.049W 2.00mmx1.25mm X7R ±5% 0.22muF	220nF	C110	100V	0805	1	C0805C224J1RECAUTO	Fitted
21	TDK CGA3E3X7S2A473K080AB SMD Multilayer Ceramic Capacitor, 0603 [1608 Metric], 0.047 F, 100 V, 10%, X7S	47nF	C113	100V	0603	1	CGA3E3X7S2A473K080AB	Fitted
22	Ceramic Capacitor, Multilayer, Ceramic, 100V, 20% +Tol, 20% -Tol, X7R, 15% TC, 0.0068uF, Surface Mount, 0603	6.8nF	C_ESD_NTCA, C_ESD_NTCB, C_ESD_NTCC, C_ESD_NTCD, C_ESD_NTCE, C_ESD_NTCF, C_ESD_NTCH, C_ESD_NTCH, C_ESD_NTCH, C_ESD_NTCH	100V	0603	10	C0603X62M1RECAUTO	Fitted
23	100V 100nF X7S [R]20% 0603 Multilayer Ceramic Capacitors MLCC - SMD/SMT R0H5	100nF	C_FIL_NTCA, C_FIL_NTCH, C_FIL_NTCC, C_FIL_NTCD, C_FIL_NTCE, C_FIL_NTCH, C_FIL_NTCH, C_FIL_NTCH, C_FIL_NTCH	100V	0603	10	CGA3E3X7S2A104M080AB	Fitted
24	Ind Common Mode Filter Wirewound 100uH 5KOHm -30% to 50% 100KHz 150mA 1812 T/R	100uH	CMC_H, CMC_L			2	ACT458-101-2P-TL003	Fitted
25	Tvs Diode, Bidir, 85V, 3Kw, Smc Rohs Compliant: Yes [Stmicroelectronics 5M30T100CAY		D1			0	SM30T100CAY	Not Fitted
26	Rectifier Diode, 1 Phase, 2 Element, 0.215A, 100V (VRRM), Silicon, TO-236AB		D2			1	BAV99-QVL	Fitted
27	Rectifier Diode Small Signal Switching 120V 0.2A 50ns 3-Pin SOT-23 T/R		D3			1	BAV19L1T3G	Fitted
28	Fiducial 1mm		FidB1, FidB2, FidB3, FidT1, FidT2, FidT3			6		Fitted
29	KEYSTONE - 4952 - PCB Test Point, Through Hole Mount, Brass, Tin Plated Contacts		GND1, GND2, GND3, GND4			4	4952	Fitted
30			ISOH_M, ISOH_P, ISOHM, ISOHP, ISOL_M, ISOL_P, ISOLM, ISOLP			8		Fitted
31	Resistor		J1_NTCA, J1_NTCH, J1_NTCC, J1_NTCD, J1_NTCE, J1_NTCH, J1_NTCH, J1_NTCH, J1_NTCH, J2_NTCA, J2_NTCH, J2_NTCC, J2_NTCD, J2_NTCE, J2_NTCH, J2_NTCH, J2_NTCH, J2_NTCH, J3, J4, J5, J6, J7, J8, J14, J15, J16, J17, J18, J19, J20, J21, J22, J23, J24, J25, J26, J27, J28, J29, J30, J31, J32, J33, J34, J35, J36, J37, J38, J39, J40, J41, J42, J43			56		Fitted
32	Connettore a 5 pin		J11, J13, J44, J45, J46			0		Not Fitted
33	Connettore a 5 pin		J12			0		Not Fitted
34	Connettore a 5 pin		J47			0		Not Fitted
35	Connettore a 6 pin		J48			0		Not Fitted
36	Conn Shrouded Header (4 Sides) HDR 2 POS 2.54mm Solder RA Thru-Hole SL Tube		J, H, J, L			2	70551-0001	Fitted
37	WR-PHD Straight Male, PCB Header, Through Hole, 1 Rows, 2 Contacts, 2.54mm Pitch, [NoValue]		J_ISOHM, J_ISOHP, J_ISOLM, J_ISOLP			4		Fitted
38	WR-PHD Straight Male, PCB Header, Through Hole, 1 Rows, 2 Contacts, 2.54mm Pitch, [NoValue]		JC18, JGND_CO, JVBS_VB			3	61300211121, [NoParam]	Fitted
39	3.0Mm X 3.0Mm, -40 To +125 Deg C, 47 uH, 1392M / Tape And Reel Rohs Compliant: Yes	47uH	L1			1	VLS3015CX-470M-H	Fitted
40	Thick Film Resistors - SMD 0.33W 240ohm 1% AEC-Q200	19965A	L9965A			1	L9965A	Fitted
41	2.0 X 1.25 MM SMD CHIP LED LAMP Single Color LED, Green, Water Clear, 1.3mm	LED1	LED1			1	KPHCM-2012CGCK	Fitted
42	Board Connector, 24 Contact(s), 2 Row(s), Male, Right Angle, Solder Terminal	P1	P1			1	2MM-HSP-D12-HT-02-H-TB	Fitted
43	Header, 2.54 Mm, Pin Header, 13 Pins, Single Row, 3A, Wr-phd Series	P2	P2			1	61301311121	Fitted
44	Board Connector, 12 Contact(s), 2 Row(s), Male, Right Angle, Solder Terminal	P3	P3			1	2MM-HSP-D06-HT-02-H-TB	Fitted
45	SMD Chip Resistor, 10 Ohm, ± 5%, 250 mW, 1206 [3216 Metric], Thick Film, General Purpose	10R	R1	250mW	1206	1	CRCW120610R0JNTA	Fitted
46	Thick Film Resistors - SMD 0.33W 240ohm 1% AEC-Q200	240R	R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23	330mW	0603	22	SG73PJTTD2400F	Fitted
47	Fixed Resistor, Metal Glaze/thick Film, 0.5W, 12ohm, 400V, 0.5% +/-Tol, 100ppm/Cel, Surface Mount, 0805	12R	R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42	500mW	0805	19	ERJUP6D12R0V	Fitted
48	Res Thick Film 0805 3.3K Ohm 5% 0.25W ±200ppm/°C Molded SMD Punched Carrier T/R	3.3kR	R43_NTCA, R43_NTCH, R43_NTCC, R43_NTCD, R43_NTCE, R43_NTCH, R43_NTCH, R43_NTCH, R43_NTCH, R62	250mW	0805	11	ERJ-P06J332V	Fitted
49	Res, 10K, 1%, 0.5W, 1206, Thick Film;	10kR	R44_NTCA, R44_NTCH, R44_NTCC, R44_NTCD, R44_NTCE, R44_NTCH, R44_NTCH, R44_NTCH, R44_NTCH	500mW	1206	10	RCC120610K0FKFA	Fitted
50	CRCW 0402 0402 (1005Metric) Chip Resistor ±1% ±100ppm/C 390ohms 0.063W 1/16W	39R	R45, R46, R47, R48	63mW	0603	4	CRCW040239R0FKTD	Fitted
51	Res General Purpose Thick Film 0603 1 Ohm 1% 1/10W ±200ppm/°C Molded SMD Paper T/R	1R	R67	100mW	0603	1	RC0603FR-071RL	Fitted
52	Circuit Breaker 0603 - NOT MOUNTED	SB1, SB2, SB3, SB4	SB1, SB2, SB3, SB4			4		Fitted
53	Circuit Breaker 0603 - NOT MOUNTED	SB5, SB6, SB7, SB8, SB9, SB10, SB11, SB12	SB5, SB6, SB7, SB8, SB9, SB10, SB11, SB12			8		Fitted
54	Telecom Transformer 3750Vrms 250mOhm Prim. 250mOhm Sec. DCR 4-Pin SMD	T2, T3	T2, T3			2	ESMIT-4180/C	Fitted
55	ESD Suppressor Diode TVS Bi-Dir 3V Automotive 2-Pin SOD-882T T/R	TVS1, TVS2, TVS3, TVS4	TVS1, TVS2, TVS3, TVS4			4	ESDAVLC8-18T2Y	Fitted
56	Automotive isolated communication port interface for L9965	U1	U1			0	EMIF04-0410M8Y	Not Fitted