

**Apalis Evaluation Board V1.2A**
**Toradex AG**

Description	Manufacturer	Manufacturer Part Number	Component Designators	Component Count
Capacitor Ceramic NP0 15pF 50V 10% 0603	Generic	NP0-15pF-50V-10%-0603	C1, C2, C6, C7, C9	5
Capacitor Ceramic X5R 22uF 10V 20% 0805	Generic	X5R-22uF-10V-20%-0805	C25, C105, C156, C10, C68, C69, C78, C84, C70, C72, C85, C86, C260, C261	14
Capacitor Ceramic X7R 100pF 50V 10% 0402	Generic	X7R-100p-50V-10%-0402	C112, C113, C319, C322	4
Capacitor Ceramic X7R 330nF 16V 10% 0805	Generic	X7R-330n-16V-10%-0805	C118, C119, C120, C121	4
Capacitor Ceramic X5R 4.7uF 10V 10% 0603	Generic	X5R-4.7uF-10V-10%-0603	C12, C13, C26, C27, C28, C29, C30, C65, C75, C80, C125, C130, C193, C197, C200, C202, C205, C206, C211, C333	20
Capacitor Ceramic X5R 1uF 16V 20% 0402	Generic	X5R-1uF-16V-20%-0402	C14, C91, C93, C96, C98, C99, C107, C179, C182, C185, C186, C194, C195, C199, C201	15
Capacitor Ceramic NP0 10pF 50V 10% 0603	Generic	NP0-10pF-50V-10%-0603	C158, C159, C160, C161, C162, C163	6
Capacitor Ceramic NP0 47pF 50V 10% 0603	Generic	NP0-47pF-50V-10%-0603	C164, C166	2
470 µF Molded Tantalum Capacitor 10 V 2917 (7343 Metric)	Generic	C-TA-470uF-10V-10%-7343	C175, C176	2
Capacitor Ceramic X7R 220pF 50V 10% 0402	Generic	X7R-220pF-50V-10%-0402	C177, C178, C183, C184, C187, C188, C191, C192, C196, C198	10
Capacitor Ceramic X7R 100nF 50V 20% 0603	Generic	X7R-100n-50V-20%-0603	C20, C58, C67, C77, C132, C258	6
Capacitor Ceramic X7R 4.7nF 50V 10% 0603	Generic	C-X7R-4.7n-50V-10%-0603	C212, C213	2
Capacitor Ceramic NP0 4.7pF 25V 10% 0603	Generic	NP0-4.7pF-25V-10%-0603	C236, C237	2
Capacitor Ceramic NP0 12pF 50V 5% 0402	Generic	NP0-12pf-50V-5%-402	C245, C246	2
Capacitor Ceramic X7R 1nF 2KV 10% 1206	Generic	X7R-1nF-2KV-10%-1206	C247, C324, C325, C329, C330, C337, C342, C344, C345, C346	10
Capacitor Ceramic X7R 100nF 16V 10% 0402	Generic	X7R-100n-16V-10%-0402	C3, C8, C15, C16, C18, C19, C21, C22, C23, C24, C31, C35, C38, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C56, C81, C82, C83, C87, C88, C89, C90, C94, C97, C106, C111, C117, C122, C123, C124, C127, C128, C129, C135, C138, C144, C145, C146, C147, C150, C157, C165, C167, C168, C180, C181, C203, C204, C207, C208, C210, C214, C215, C217, C219, C220, C228, C229, C230, C231, C232, C233, C234, C235, C238, C239, C241, C242, C243, C244, C248, C249, C251, C252, C253, C259, C280, C289, C290, C294, C297, C298, C299, C303, C306, C310, C318, C321, C332, C334, C336, C347, C348	105
Capacitor Ceramic X7R 10nF 25V 10% 0402	Generic	X7R-10n-25V-10%-0402	C32, C37, C40, C66, C76, C141, C254, C255, C256, C257	10
Capacitor Ceramic X5R 10uF 50V 20% 1210	Generic	X5R-10uF-50V-20%-1210	C33, C34, C59, C60, C61, C63, C64, C73, C74, C140, C143	11
Capacitor Ceramic X5R 100uF 10V 20% 1210	Generic	X5R-100uF-10V-20%-1210	C4, C5, C11, C170, C171, C172, C173, C174, C189, C190, C291, C295, C300, C304, C307, C311, C335	17
Capacitor Ceramic X5R 10uF 10V 20% 0603	Generic	X5R-10u-10V-20%-0603	C54, C55, C133, C149, C151, C152, C153, C216, C218, C221, C240, C250, C279, C281, C282, C283	16

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Capacitor Ceramic X5R 1nF 50V 10% 0402	Generic	X7R-1n-50V-10%-0402	C57, C62, C71, C79, C100, C101, C102, C103, C104, C108, C109, C110, C114, C115, C116, C148, C222, C223, C224, C225, C226, C227, C292, C296, C301, C305, C308, C312, C320, C323	30
	Generic	NP0-33pF-25V-10%-0603	C92, C95	2
C2032 Battery Holder	Renata	HU2032-LF	BAT1	1
	FCI	68000-202HLF		
	JVE	21B1264-02S10		
Header male, 1x2 Pins, 2.54 mm pitch	Molex	901201082	JP1, JP5, JP6, JP7, JP8, JP9, JP11, JP14, JP15, JP16, JP17, JP18, JP19, JP23, JP25, JP34, JP35, JP36, X44, X50, X62, X63	22
	Molex	901200122		
	Samtec	TSW-101-07-G-D		
Header male, 1x3 Pins, 2.54 mm pitch	JVE	21B1264-03S10-01G-6/3	JP10, JP20, JP22, JP24, JP26, JP27, JP29, JP12, JP28, JP37	10
	Tyco	826936-3		
	AUK	TB5102SW		
Power Connector Mate 5.08mm pitch	DECA Switchlab	MC100-508-02	MECH100	1
	Lumberg	MC100-508-02		
Testpin TH	Keystone	5011	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12	12
MXM Socket - 4 additional pads	JAE	MM70-314B1-2-R300	X1	1
HDMI 2.1 Connector Right Angle Vertical THT	Molex	2086581051	X11	1
RJ45 Ethernet Connector 1000BaseT Connector	LINK-PP	LPJK7436A98NL	X12	1
Header Male, 2X20 Pins, 1.25 mm pitch, shrouded	Hirose	DF13EA-40DP-1.25V(76)	X13	1
	JVE	21B22564-16S10B-01G-6/3		
Header Male, 2x8 Pins, 2.54mm pitch	Samtec	TSW-108-07-G-D	X14	1
Power Connector	AUK	TB5102PRB-H	X15	1
	TE Connectivity (Tyco Electronics)	796638-2		
	Amtek	PH1S25-203GB6.0-3.0-L		
Header Male, 2x3 Pins, 2.54mm pitch	EVE	SL6G2	X16, X37, X48	3
	Samtec	TSW-103-07-G-D		
Power Jack	SwitchCraft	RAPC722X	X17	1
SD Card Holder	Wurth	693063020911	X18	1
MicroSD card holder with card detect, Push-Push type	Würth Elektronik (Wuerth Elektronik)	693071010811	X19	1
	Amtek	PH1S25-210GB6.0-3.0-L		

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Header 2x10 pin 2.54mm pitch, Male	EVE	SL20G2	X20, X3n1, X3n2, X3n3, X3n4, X6n1, X6n2, X6n3, X6n4, X9n1, X9n2, X9n3, X9n4	13
	Samtec	TSW-110-07-G-D		
Header 1x10 pin 2.54mm pitch, Female	Amtek	PS1S85-110GB-L	X21, X30, X2n1, X2n2, X2n3, X2n4, X4n1, X4n2, X4n3, X4n4, X5n1, X5n2, X5n3, X5n4, X7n1, X7n2, X7n3, X7n4, X8n1, X8n2, X8n3, X8n4, X10n1, X10n2, X10n3, X10n4	26
	Samtec	SSW-110-01-G-S		
Header male, 2x12 Pins, 2.54 mm pitch	JVE	21B22564-24S10B-01G-6/3	X22, X57	2
	Samtec	TSW-112-07-G-D		
15 pin male D-SUB connector	AUK	HDR15SN-H	X24	1
	Unknown	HDBR-F15SB1B-L		
Header Receptacle 1x6 pin 2.54mm pitch, Female	JVE	22B8561-06S10B-01G	X47, X25	2
	Samtec	SSW-106-01-G-S		
Header Male, 2x5 Pins, 2.54mm pitch	EconConnect	SLSD10GA	X26, X32, X39, X40	4
	JVE	21B22564-10S10-01G-6/3		
Audiojack stereo, 3.5mm, blue	CUI	SJ1-3535NG-BE	X27, X65	2
DSUB-9, RS232 Connector, Male	Assmann	A-DS 09 A/KG-T2S	X28, X55	2
USB 3.1 Connectors, USB type C, Receptacle, Top mount, SMT-THT, 1.6mm PCB	Stewart Connector	SS-52400-003	X29, X49	2
0.50mm Pitch FFC/FPC Vertical RGB connector	Hirose	FH12-40S-0.5SVA(54)	X31	1
Header shrouded male, 2x10 pin 2.54mm pitch	Foxconn	HL20101	X33	1
	Molex	70246-2002		
	Sullins	SBH11-PBPC-D10-ST-GR		
CON-Header-2x10-Female-2.54mm	JVE	22P8562-20S10-01G	X34	1
	Samtec	SSW-110-01-G-D		
Header male with friction lock, 1x3 pins, 2.54mm pitch	Molex	2211-2032	X35	1
PCle_Mini Card Holder	TE Connectivity	1775838-2	X36, X45	2
High Speed Ground Plane Socket	Samtec	QSH-060-01-L-D-A	X38	1
Audiojack stereo, 3.5mm, green	CUI	SJ1-3535NG-GR	X41, X66	2
Audiojack stereo, 3.5mm, pink	CUI	SJ1-3535NG-PI	X42, X67	2
2-pin terminal block	CUI	TBLH10-500-02BK	X43	1
6 Contacts Nano Sim Card Holder	Molex	1042240820	X46	1
USB 3.0, Type A Receptacle, Top mount, Right Angle TH	Stewart Connector	SS-52000-001	X51	1
FFC/FPC, 1 Sided Contact, 0.50mm Pitch, 10 pins	Hirose	FH12-10S-0.5SVA(54)	X52	1

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Description	Manufacturer	Manufacturer Part Number	Component Designators	Component Count
USB-A (USB TYPE-A), Stacked USB 2.0 Receptacle Connector 8 Position Through Hole, Right Angle	Stewart Connector	SS-52100-003	X53, X54	2
Header 1x12 pin 2.54mm pitch	JVE	P8561-12S10-01G	X56, X58	2
	Samtec	SSW-112-01-G-S		
Spring Loaded Pogo Pin 7x1	Mill-Max Manufacturing Corp	821-22-007-10-000101	X59	1
0.50mm Pitch FFC/FPC Vertical DVI Connector	Hirose	FH12-24S-0.5SVA(54)	X60	1
Header Female, 2x3 Pins, 2.54mm pitch	JVE	22B8562-06S10B-01G	X61	1
	Samtec	SSW-103-01-G-D		
Audiojack stereo, 3.5mm, black	CUI	SJ1-3535NG	X64	1
Crystal 24.0 MHz	Horizon	HEX24-24000MHz-18-50R-F-H2-T2-W2-T	OSC1	1
Crystal	Micro Crystal	CC4V-T1A-32.768kHz-12.5pf-20ppm	OSC2	1
12 MHz Oscillator, 3.20mm x 2.50mm	SiTime	SIT1602BI-22-33E-12.000000	OSC3	1
12MHz Ceramic SMD Crystal, Hong Kong X'tals Limited, HKC3225SX-12MHz-29105-R4V1, 30ppm, -40C to +85C	HKC Hong Kong X'tals	HKC3225SX-12MHz-29105-R4V1	OSC4	1
4 CHANNEL LOW CAPACITANCE TVS DIODE ARRAY	Diodes Incorporated	DT1240-04LP-7	D1, D2, D8, D9, D11, D14, D16, D17, D18, D20, D21, D23, D27, D28, D43, D44, D45, D61, D78	19
BIDIRECTIONAL TVS DIODE 5V SOD923	Diodes Inc	D5V0L1B2S9-7	D10, D12, D13, D15, D19, D24, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D46, D48, D49, D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D67, D68, D69	36
TVS Array low cap	Nexperia	PESD2IVN24-T	D25, D26	2
Schottky Barrier Rectifier	ON Semi	BAT54XV2	D3, D4, D5, D47, D60, D62, D63, D64	8
	ON Semiconductor	BAT54XV2T5G		
Schottky Diode, 35V, 7.5A, TO-263-3/D2PAK, -65C to +150C	Vishay	VS-MBRB735-M3	D6, D22	2
TVS DIODE 7V/12V SOT23-3	Micro Commercial Co	SM712-TP	D65, D66	2
Bidirectional ESD protection	Littelfuse	SMAJ30CA	D7	1
BIDIRECTIONAL TVS DIODE 15V SOD323	Nexperia	PESD15VL1BAZ	D70, D71, D72, D73, D74, D75, D76, D77	8
	Nexperia	PESD15VL1BA,115		
Fuse	Littelfuse	0458002.DR	F1, F2	2
NCP511SN33T1G LDO Regulator	ON Semi	NCP511SN33T1G	IC1, IC34	2
Isolated CAN Transceiver with 70-V Bus Fault Protection and FD Rate, SOIC-16-Wide, -40C to +125C	TI	ISO1042BDWR	IC10, IC13	2
AP22653W6-7 LDO Regulator	Diodes Incorporated	AP22653W6-7	IC11	1
Isolated DC/DC Converter	Mornsun	B0505XT-1WR2	IC12, IC15	2
CURRENT/POWER MONITOR with I2C Interface	Texas Instruments	INA219BIDR	IC14	1

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5V Linear Voltage Regulator, Positive, Fixed, 1 Output, 80mA, SOT-223-3	Microchip	MCP1799-5002H/DB	IC16	1
Push Button On/Off Controller	Linear	LTC2954CTS8-2#PBF	IC17	1
NC7SZ126M5X Buffer Three-State Output	Fairchild Semiconductor	NC7SZ126M5X	IC18, IC36	2
8A (Iout(max)) Synchronous Buck Regulator, QFN-22L (4mmx4mm), Vin = 4V to 28V	A&O	AOZ2261AQI-15	IC2, IC5	2
LDO TO 2A	Semtech	SC4215ASTRT	IC20, IC29	2
RTC M41T0M6	ST Microelectronics	M41T0M6F	IC21	1
	ST Microelectronics	M41T0M6		
Single Schmitt-Trigger Buffer	Texas Instruments	SN74LVC1G17DCKR	IC22, IC23	2
Temperature Sensor Digital, Local -55°C ~ 125°C 11 b 8-VSSOP	Texas Instruments	TMP75CIDGKR	IC24	1
High-speed bidirectional passive switch in mux or demux configurations	Texas Instruments	TMUXHS4212IRKST	IC25	1
USB Type-C Configuration Channel Logic and Port Control with VCON	TI (Texas Instruments)	TUSB321AIRWBR	IC26	1
Buffer, I2C ReDriver 1 Channel 1MHz 8-TSSOP	NXP	PCA9617ADPJ	IC27	1
Audio Codec with integrated speaker driver	Nuvoton	NAU88C22YG	IC28	1
Quad 2-Input NOR Gate	ON Semi	MC74AC02DT	IC3	1
	ST Microelectronics	M74HC02TTR		
Dual High Side Switch With OC_DET 500mA/CH	Texas Instruments	TPS2052BD	IC30, IC31	2
1A Dual High Side Switch (Current Limiting (Fixed), Over Temperature, Reverse Current, UVLO)	Texas Instruments	TPS2066CD	IC32	1
EEPROM, Serial I²C bus , SOIC-8, -40C to +85C	ST	M24C02-FMN6TP	IC33	1
High Side Load Switch, TDFN4 1.2 x 1.6	Microchip Micrel	MIC94073YMT	IC35, IC38, IC39, IC40	4
ADM3491ARZ RS-485/RS-422 transceiver	Analog Devices	ADM3491ARZ	IC4	1
Quad High Speed USB to Multipurpose UART/MPSSSE	FTDI	FT4232HL	IC41	1
8-Bit Shift Registers With 3-State Output Registers	TI (Texas Instruments)	SN74HC595PW	IC45	1
SINGLE BUS BUFFER GATE WITH 3-STATE OUTPUT	Texas Instruments	SN74LVC1G125DCKR	IC6	1
Multichannel RS-232 Compatible Line Driver/Receiver	TI	MAX3243IDBR	IC7	1
4 Bit Bidirectional I Voltage Level Translator, Configurable Direction, UFQFN-16 package	TI	SN74AVC4T774RSVR	IC8, IC19, IC44	3
4 Port USB HUB	Microchip Technology	USB2514B-AEZC	IC9	1
33R@100MHz 3A EMI FILTER	Murata	BLM18PG330SN1D	L1, L17, L40	3
Inductance 2.2uH, 20%, Irms=12A, Isat=27A, DCR=7 mOhm	Pulse	PA4342.222NLT	L20	1
Inductance 1.5uH, 20%, Irms=16A, Isat=33A, DCR=4.6 mOhm	Pulse Electronics	PA4342.152NLT	L21	1

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40R@100MHz 600mA EMI FILTER	Generic	MMZ1608S400A-40R@100MHz-600mA-25%	L22, L23, L24	3
220R@100MHz 2A EMI FILTER	Generic	220R@100MHz-2A-25%-0603	L3, L4, L5, L13, L15, L27, L45, L47, L54, L56, L61, L63, L25, L26, L28, L29	16
6.8 uH Shielded - Inductor 1.2 A 330mOhm Max 1008 (2520 Metric)	Murata	DFE252012F-6R8M=P2	L42, L44	2
Ferrit Bead	Generic	120R-600mA-25%-0402	L6, L10, L30, L31, L32	5
Common Mode Choke High Speed 12R 100mA	Panasonic	EXC14CH120U	L7, L12, L14, L33, L34, L35, L36, L37, L38, L39, L41, L43, L50, L52, L57, L59, L64	17
Power Supply FB 10A	Laird	35F0121-0SR-10	L9, L18, L19	3
LED green Osram LG T67K-H2K1-24-Z	Osram	LG T67K-H2K1-24-Z	LED1, LED2, LED3, LED4, LED9, LED10, LED11, LED12, LED19, LED21, LED22, LED23, LED24, LED25, LED26, LED27, LED28, LED29, LED30, LED31, LED32, LED33	22
LED yellow Osram LY T67K-J2L1-26-Z	Osram	LY T67K-J2L1-26-Z	LED34, LED35, LED36, LED37, LED38	5
LED red, Osram LS T67K-K1L2-1-Z	Osram	LS T67K-K1L2-1-Z	LED5, LED6, LED7, LED8, LED18	5
Shunt Jumper	Assmann	AKSPT/G-BLACK	JMP1, JMP2, JMP3, JMP4, JMP5, JMP6, JMP7, JMP8, JMP9, JMP10, JMP11, JMP12, JMP13, JMP14, JMP15, JMP16, JMP17, JMP18, JMP19, JMP20, JMP21, JMP22, JMP23, JMP24, JMP25, JMP26, JMP27, JMP28, JMP29, JMP30, JMP31, JMP32, JMP33, JMP34, JMP35, JMP36, JMP37, JMP38, JMP39, JMP40, JMP41, JMP42, JMP43, JMP44, JMP45, JMP46, JMP47, JMP48, JMP49, JMP50, JMP51, JMP52, JMP53, JMP54, JMP55, JMP56, JMP57, JMP58, JMP59, JMP60, JMP61, JMP62, JMP63, JMP64, JMP65, JMP66, JMP67, JMP68, JMP69, JMP70, JMP71, JMP72, JMP73, JMP74, JMP75, JMP76, JMP77, JMP78, JMP79, JMP80, JMP81, JMP82, JMP83, JMP84, JMP85, JMP86, JMP87, JMP88, JMP89, JMP90, JMP91, JMP92, JMP93, JMP94, JMP95, JMP96, JMP97, JMP98, JMP99, JMP100, JMP101, JMP102, JMP103, JMP104, JMP105, JMP106, JMP107, JMP108, JMP109, JMP110, JMP111, JMP112, JMP113, JMP114, JMP115, JMP116, JMP117, JMP118, JMP119, JMP120, JMP121, JMP122, JMP123, JMP124, JMP125, JMP126, JMP127, JMP128, JMP129, JMP130, JMP131, JMP132, JMP133, JMP134, JMP135, JMP136, JMP137, JMP138, JMP139, JMP140, JMP141, JMP142, JMP143, JMP144, JMP145, JMP146, JMP147, JMP148, JMP149, JMP150, JMP151, JMP152, JMP153, JMP154, JMP155, JMP156, JMP157, JMP158, JMP159, JMP160, JMP161, JMP162, JMP163, JMP164, JMP165, JMP166, JMP167, JMP168, JMP169, JMP170, JMP171, JMP172, JMP173, JMP174, JMP175, JMP176	176
Mini PCI-E Latch with Cover	Molex	48099-5701	MECH1, MECH9, MECH10	3
Broaching Nut stand offs for plastics	PEM	KFE-M3-3ET	MECH11, MECH12, MECH13	3

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Broaching Nut stand offs	PEM	KFE-M3-8ET	MECH14, MECH15, MECH16, MECH17, MECH18, MECH19	6
Screw, M3x6mm	Generic	Screw-Plastic-M3x6mm	MECH22, MECH23, MECH24, MECH25	4
Screw Nut Hexagonal, M3x6mm spacer	Generic	Nut-Plastic-M3x6mm	MECH27, MECH28, MECH29, MECH30	4
	Cui Inc	CMEJ-0706-42-P	MIC1, MIC2	2
EEPROM, 1k, 64x16, serial, SOIC8	Microchip Technology	93LC46BT-I/SN	IC43	1
PCB Structure	Generic	PCB Apalis Evaluation Board V1.2.001	PCB1	1
Barcode Label	Generic	Barcode Label	LBL1	1
Resistor 22 ohm 63mW 5% 0402	Generic	22R-63mW-5%-0402	R1, R2, R7, R9, R10, R13, R189, R296, R297, R366	10
Resistor 1 Kohm 63mW 5% 0402	Generic	1K-63mW-5%-0402	R11, R14, R113, R115, R119, R124, R127, R131, R134, R138, R146, R256, R268, R269, R270, R308, R309, R361, R364, R161	20
Resistor 0 ohm 63mW 1% 0603	Generic	0R-63mW-1%-0603	R16, R18, R21, R24, R27, R33, R43, R82, R85, R86, R89, R106, R156, R166, R185, R187, R210, R223, R225, R244, R267, R278, R286, R289, R290, R310, R323, R324, R325, R326, R327, R328, R329, R330, R342, R343, R344, R345, R346, R347, R348, R349, R350, R351, R376, R453	46
5 mOhms ±1% 1W Chip Resistor Wide 1206 (3216 Metric), 0612 4-pin Current Sense Metal Film	Yaego	PS0612FKF070R005L	R165	1
True 0R Shunt, 0.2mR max, 0.5W, 20A, Chip Resistor 1206	Keystone	5108	R167	1
Resistor 40.2 Kohm 63mW 1% 0402	Generic	40.2K-63mW-1%-0402	R171, R191, R271	3
Resistor 20 Kohm 63mW 1% 0402	Generic	20K-63mW-1%-0402	R172, R272	2
Resistor 1.8 Kohm 63mW 5% 0402	Generic	1.8K-63mW-5%-0402	R175, R176, R205, R206, R207, R208, R291, R292	8
Resistor 33 ohm 63mW 5% 0603	Generic	33R-63mW-5%-0603	R181, R182	2
Resistor 10 ohm 63mW 5% 0603	Generic	10R-63mW-5%-0603	R19, R20, R126, R130, R136, R140, R174	7
Resistor 27 Kohm 63mW 1% 0402	Generic	R-27K-63mW-1%-0402	R193, R240	2
Resistor 4.7Kohm 63mW 5% 0402	Generic	4.7K-63mW-5%-0402	R200, R201	2
Resistor 887 Kohm 63mW 1% 0402	Generic	887K-63mW-1%-0402	R229	1
Resistor 47k 63mW 1% 0402	Generic	47K-63mW-1%-0402	R23, R40, R197, R202, R203, R209, R217, R220, R264, R318	10
Resistor 10 Kohm 63mW 1% 0402	Generic	10K-63mW-1%-0402	R234, R235, R236, R237	4
Resistor 220 ohm 250mW 5% 1206	Generic	R-220R-250mW-5%-1206	R247, R248	2
Resistor 100 Kohm 63mW 5% 0402	Generic	100K-63mW-5%-0402	R25, R26, R61, R64, R69, R80, R109, R112, R116, R118, R120, R123, R125, R128, R132, R135, R139, R142, R143, R145, R148, R150, R151, R152, R153, R154, R155, R162, R163, R170, R177, R190, R195, R219, R243, R249, R354	37

**Apalis Evaluation Board V1.2A**
**Toradex AG**

Description	Manufacturer	Manufacturer Part Number	Component Designators	Component Count
Resistor 5.1 Kohm 63mW 1% 0603	Generic	5.1K-63mW-1%-0603	R250, R259, R260	3
Resistor 8.87 Kohm 63mW 1% 0402	Generic	8.87KR-63mW-1%-0402	R295, R319	2
Resistor 2.2 Kohm 63mW 5% 0402	Generic	2.2k-63mW-5%-0402	R3, R8, R12, R215, R216, R238, R239, R277, R280, R281, R282, R283, R284, R306, R320, R331	16
Resistor 510 Kohm 63mW 1% 0402	Generic	510K-63mW-1%-0402	R315	1
Resistor 100 Kohm 63mW 5% 0603	Generic	100K-63mW-5%-0603	R34, R38, R44, R76, R78, R245, R317	7
Resistor 330 Kohm 63mW 1% 0402	Generic	330KR-63mW-1%-0402	R36	1
Resistor 10 Kohm 63mW 5% 0402	Generic	10K-63mW-5%-0402	R4, R45, R55, R56, R62, R63, R65, R66, R67, R68, R70, R90, R91, R92, R93, R144, R147, R149, R158, R168, R169, R196, R204, R213, R214, R224, R241, R242, R251, R252, R253, R254, R255, R258, R261, R274, R275, R276, R279, R287, R288, R294, R298, R299, R300, R301, R302, R303, R304, R307, R311, R312, R369, R375, R101, R95	56
Resistor 15 Kohm 63mW 1% 0402	Generic	15KR-63mW-1%-0402	R41	1
Resistor 150 ohm 63mW 1% 0603	Generic	150R-63mW-1%-0603	R5, R6, R173, R178, R179, R180, R263	7
Resistor 10 Kohm 63mW 5% 0603	Generic	10K-63mW-5%-0603	R129, R133, R360, R368, R51, R52, R53, R54, R228, R355, R356, R378, R380	13
Resistor 120 ohm 63mW 5% 0603	Generic	120R-63mW-5%-0603	R57, R59, R305	3
000M012k000R000	Generic	12K-63mW-1%-0402	R79, R257	2
Resistor 1Mohm 63mW 5% 0603	Generic	1M-63mW-5%-0603	R81, R192, R262, R273, R352, R353, R362, R363, R365, R370, R372, R373, R374	13
Resistor 100 ohm 63mW 5% 0603	Generic	100R-63mW-5%-0603	R88, R99, R105, R107, R108, R110, R111, R114, R117, R121, R122, R198, R199, R211, R212	15
Resistor 60.4 ohm 250mW 1% 1206	Generic	R-60.4R-250mW-1%-1206	R97, R98, R103, R104	4
Resistor Array 22 R 63mW 5% 4x0603	Generic	22R-63mW-5%-4x0603	RA1, RA2, RA3, RA4, RA5, RA6, RA7, RA8, RA9, RA10, RA11, RA12, RA13, RA14, RA15, RA16, RA17, RA18, RA19, RA20, RA21, RA22, RA23, RA24, RA25, RA26, RA27, RA28, RA31, RA77	30
Switch	See Plus	SS-12D01-VG	SW1, SW2, SW3, SW4	4
Push Button	Wealth Metal	TD-03XB-Z-TR	SW5, SW6, SW7, SW8, SW9, SW10, SW11	7
Dual N-Channel 20V (D-S) MOSFET	ON Semi	NTZD3154NT1G	T1, T2, T4, T5, T6, T7, T8, T10, T11, T16, T17, T18, T24	13
P-channel MOSFET, DMP4015SSS-13	Diodes Inc	DMP4015SSS-13	T12, T14	2
N-Channel MOSFET Enhancement Mode	Diodes Inc.	BSS138-7-F	T13, T15, T20, T21, T22	5
Bipolar (BJT) Transistor PNP 65V 100mA 100MHz 250mW Surface Mount SOT-23-3	NXP	BC856B-SOT23	T19	1
p-channel MOSFET, DMP2022LSS-13	Diodes Inc.	DMP2022LSS-13	T3	1
N- and P-Channel MOSFET 20V	ON Semi	NTZD3155CT1G	T9	1



Description	Manufacturer	Manufacturer Part Number	Component Designators	Component Count
	Generic	No Physical Component	C17, C36, C39, C288, C126, C131, C209, C134, C136, C137, C139, C142, C154, C155, C169, JP13, L2, L11, L46, L8, L16, MECH36, MECH37, R15, R17, R22, R28, R35, R42, R71, R72, R73, R75, R83, R84, R87, R96, R102, R157, R159, R160, R164, R184, R186, R188, R194, R226, R227, R246, R265, R266, R285, R313, R314, R321, R322, R332, R333, R334, R335, R336, R337, R338, R339, R340, R341, R371, R452, R29, R46, R30, R31, R32, R39, R47, R48, R49, R50, R37, R74, R77, R316, R58, R60, R137, R141, R221, R357, R183, R218, R222, R358, R359, R367, R230, R231, R232, R233, R293, X23, R379, R377, JP21	103