

Designator	Qty.	Value/Description	Package	Manufacture	Manufacturer P/N	Supplier	Supplier P/N
C1, C2	2	CAP CER 1uF 25V X5R	0603(1608)	Murata	GRM188R71E105KA12		
C3, C6, C7, C11, C12, C15, C16, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C69, C70, C71, C72, C73, C74, C75, C76, C77, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92	40	CAP CER 100nF 50V X7R	0603(1608)	Samsung	CL10B104KB8NNNL	Digi-Key	1276-CL10B104KB8NNNLCT-ND
C4, C5, C8, C9	4	CAP CER 100nF 100V X7R 10%	0603(1608)	Samsung	CL10B104KC8NNNC	Mouser	187-CL10B104KC8NNNC
C10, C44,	2	CAP CER 270pF 630V COG 5%	1206(3216)	TDK	C3216C0G2J271J060AA	Mouser	810-C3216C0G2J271J
C13, C14, C17, C18,	4	CAP CER 22uF 25V X5R	0805(2012)	Murata	GRM21BR61E226ME4L	Mouser	81-GRM21BR61E226ME4L
C31, C65,	2	CAP CER 330pF 630V COG 5%	1206(3216)	Yageo	CC1206JKNPOZBN331	Mouser	603-CC206JKNPOZBN331
C32, C46, C58,	3	CAP CER 120pF 630V COG 5%	1206(3216)	Walsin	1206N121J631CT	Mouser	791-1206N121J631CT
C33, C94,	2	CAP CER 47pF 500V COG 5%	1206(3216)	Walsin	1206N470J501CT	Mouser	791-1206N470J501CT
C34, C49, C63,	3	CAP CER 39pF 500V COG 5%	1206(3216)	Yageo	CC1206JRNPOBBN390	Mouser	603-CC126JRNPOBBN390
C35,	1	CAP CER 1500pF 630V COG 5%	1206(3216)	TDK	C3216C0G2J152J115AA	Mouser	810-C3216C0G2J152J
C36,	1	CAP CER 560pF 630V COG 5%	1206(3216)	TDK	C3216C0G2J561J085AA	Mouser	810-C3216C0G2J561J
C37,	1	DNI					
C38, C68,	2	CAP CER 27pF 500V COG 5%	1206(3216)	Yageo	CC1206JRNPOBBN270	Mouser	603-CC126JRNPOBBN270
C39,	1	CAP CER 15pF 500V COG 5%	1206(3216)	Yageo	CC1206JRNPOBBN150	Mouser	603-CC126JRNPOBBN150
C40,	1	CAP CER 8.2pF 500V COG ±0.5pF	1206(3216)	Walsin	1206N8R2D501CT	Mouser	791-1206N8R2D501CT
C41, C57,	2	CAP CER 150pF 630V COG 5%	1206(3216)	Yageo	CC1206JKNPOZBN151	Mouser	603-CC126JKNPOZBN151
C42, C62,	2	CAP CER 82pF 500V COG 5%	1206(3216)	Murata	GRM31A5C2H820JW01D	Mouser	81-GRM31A5C2H820JW1D
C43, C55,	2	CAP CER 680pF 500V COG 5%	1206(3216)	Yageo	CC1206JRNPOBBN681	Mouser	603-C1206JRNPOBBN681
C45,	1	CAP CER 160pF 630V COG 1%	1206(3216)	KEMET	C1206C161JBGACTU	Mouser	80-C1206C161JBG
C47,	1	CAP CER 3000pF 500V COG 5%	1206(3216)	KEMET	C1206C302JCGACTU	Mouser	80-C1206C302JCGACTU
C48, C59,	2	CAP CER 1200pF 630V COG 5%	1206(3216)	TDK	C3216C0G2J122J085AA	Mouser	810-C3216C0G2J122J
C50, C61,	2	CAP CER 100pF 630V CH 5%	1206(3216)	TDK	C3216CH2J101J060AA	Mouser	810-C3216CH2J101J06A
C51,	1	CAP CER 43pF 630V COG 5%	1206(3216)	KEMET	C1206C430JBGACTU	Mouser	80-C1206C430JBG
C52, C64, C95,	3	CAP CER 33pF 500V COG 5%	1206(3216)	Yageo	CC1206JRNPOBBN330	Mouser	603-CC126JRNPOBBN330
C53,	1	CAP CER 510pF 630V 5%	1206(3216)	KEMET	C1206C511JBGACTU	Mouser	80-C1206C511JBG
C54, C56,	2	CAP CER 220pF 630V 5%	1206(3216)	TDK	C3216C0G2J221J060AA	Mouser	810-C3216C0G2J221J
C60,	1	CAP CER 470pF 500V COG 5%	1206(3216)	Yageo	CC1206JRNPOBBN471	Mouser	603-CC206JRNPOBBN471
C66,	1	CAP CER 68pF 630V COG 5%	1206(3216)	Walsin	1206N680J631CT	Mouser	791-1206N680J631CT
C67,	1	CAP CER 22pF 500V COG 5%	1206(3216)	Yageo	CC1206JRNPOBBN220	Mouser	603-CC126JRNPOBBN220
C78, C80,	2	CAP CER 1500pF 100V COG 5%	0805(2012)	TDK	CGA4C2C0G2A152J060AA	Mouser	810-CGA4C2C0G2A152J
C79,	1	CAP CER 680pF 100V COG 5%	0805(2012)	Yageo	CC0805JRNPO0BN681	Mouser	603-CC805JRNPO0BN681
C93,	1	CAP CER 10pF 500V COG 5%	1206(3216)	Yageo	CC1206JRNPOBBN100	Mouser	603-CC126JRNPOBBN100
CN1, CN2	1	3.5mm Jack 3-contact	-	CUI	SJ1-3525N	Mouser	490-SJ1-3525N
D1, D2, D3, D4,	4	Schottky Diode	SOD-323	Diodes Nexperia	1N5711WS RB751V40,115	Mouser	771-RB751V40,115
D5,	1	Diode 1000V 1A	DO-214AC(SMA)	Diodes	S1M-13-F	Mouser	621-S1M-F
D6,	1	TVS Diode	DO-214AC(SMA)	Littelfuse	SMBJ6.0CA	Mouser	576-SMBJ6.0CA
D7, D8, D9, D10, D11, D12, D13,	7	LED	0603(1608)	Lite-On	LTST-C190GKT	Mouser	859-LTST-C190GKT
F1,	1	Resettable Fuse 3A	-	Bourns	MF-LSMF300/24X-2	Mouser	652-MF-LSMF300/24X-2
FB1,	1	FB 100MHz 1A.25%	0603 (1608)	TDK	MPZ1608S601ATA00	Mouser	810-MPZ1608S601ATA00
J1, J8, J10, J13,	4	uFL Male	-	-	-	Aliexpress	
J2, J9,	2	SMA	-	-	-	-	-
J3,	1	DC POWER JACK EIAJ-5	-	CUI	PJ-025	Mouser	490-PJ-025

J4,	1	SMA/BNC	-	-	-	-	-
J5,	1	Low Profile Pin header 2.54mm 5 x 2 pin	-	-	-	-	-
J6, J12,	1	Low Profile Pin header 2.54mm 2 x 1 pin	-	-	-	-	-
J7,	1	Low Profile Pin header 2.54mm 3 x 1 pin	-	-	-	-	-
J11,	1	Pin header 2.54mm 5 x 1 pin	-	-	-	-	-
K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14,	14	EA2-12	-	KEMET	EA2-12NU	DigiKey	399-17332-5-ND
L1,	1	multi-aperture core	-	Amidon	BN43-2402	Kits and Parts	BN43-2402
L2, L6, L7, L8, L12, L13, L14,	7	powdered iron toroid	-	Amidon	T50-2	Kits and Parts	T50-2
L3, L4, L5, L9, L10, L11, L15, L16, L17,	9	powdered iron toroid	-	Amidon	T50-6	Kits and Parts	T50-6
L18, L19,	2	IND 1.8uH	0805(2012)	Taiyo Yuden	LBM2016T1R8J	Mouser Digi-Key	963-LBM2016T1R8J 587-3092-1-ND
Q1, Q2,	2	RF Power MOS FET	TO-220	Mitsubishi	RD15HVF1	RS	690-0127
Q3,	1	Pch FET	SOIC-8	Diodes	621-DMP3036SSS-13	Mouser	621-DMP3036SSS-13
Q4,	1	Pch FET	SOT23_3	Infineon	IRLML6402TRPBF	Digi-Key	IRLML6402PBFCT-ND
Q5,	1	Nch FET	SOT-23	ONsemi	2N7002ET1G	Mouser	863-2N7002ET1G
R1,	1	RES 560 ohm	0603(1608)				
R2, R6,	2	DNI	0805(2012)	-	-	-	-
R3,	1	RES 0 ohm	0805(2012)				
R4,	1	RES 4.7k ohm	0603(1608)				
R5,	1	RES 2.2k ohm	0603(1608)				
R7, R8, R19, R21, R29,	5	RES 1k ohm	0603(1608)				
R9, R10,	2	RES 10 ohm	0603(1608)				
R11, R12,	2	RES 220 ohm 0.75W 1%	2010(5025)	Yageo	RC2010JK-07220RL	Mouser	603-RC2010JK-07220RL
R13, R30,	2	RES 56 ohm	0603(1608)				
R14, R16,	2	RES 100k ohm	0603(1608)				
R15,	1	RES 49.9 ohm 0.1W 1%	0603(1608)	Bourns	CR0603-FX-49R9ELF	Mouser	652-CR0603FX-49R9ELF
R17, R18,	2	RES 220k	0603(1608)				
R20, R22,	2	RES 1.8k	0603(1608)				
R23,	1	RES 100 ohm	0603(1608)				
R24, R28,	2	RES 10k ohm	0603(1608)				
R25, R27,	2	RES 110 ohm	0603(1608)				
R26,	1	RES 51.1 ohm	0603(1608)				
R31,	1	RES 430 ohm	0603(1608)				
R32, R33, R34, R35, R36, R37, R38,	7	RES 1.5k ohm	0603(1608)				
RV1, RV2,	2	RES Trimmer 10k ohm	-	Bourns	3296W-1-103LF	Mouser	652-3296W-1-103LF
T1, T3, T4,	3	ferrite toroid	-	Amidon	FT37-43	Kits and Parts	FT37-43
T2,	1	multi-aperture core	-	Amidon	BN43-202	Kits and Parts	BN43-202
U1,	1	Shunt Regulator	SOT89-3	Toshiba	TA76431F	Chip One Stop	C1S751200341120
U2,	1	OPAMP	SOIC-8	TI	LMC6482IMX/NOPB	Digi-Key	LMC6482IMXCT-ND
U3,	1	I/O Expander	SSOP-20	Microchip	MCP23008-E/SS	Digi-Key	MCP23008T-E/SS
U4,	1	Low Side Driver	TSSOP-16	Diodes TI TI	ULN2003V12T16-13 TPL7407LPWR TPL7407LAPWR	Mouser	621-ULN2003V12T16-13 595-TPL7407LPWR 595-TPL7407LAPWR

HL2 RF7 - PA30 J1

HL2 RF5 - PA30 J8

PA30 J10 - PA30 J13

1

2

uFL/IPEX-1 cable Female-Female 10cm

uFL/IPEX-1 cable Female-Female 15cm

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