

UGV-II-FF 2.6 (by pancio) BOM-Links: Mouser/AliExpress

Reference	Value	Footprint	Qty	Man.Nr.	Alternativ Footprint 603
C1,C9	47u (10µF)	Capacitor_SMD:C_1210_3225Metric	2	CL32A476MQJNNNE	
C2,C3,C4,C5,C6,C10,C11	100n	Capacitor_SMD:C_0805_2012Metric	7	CL21B104KACNFNC	CL10A104KA8NNNC
C7	100p	Capacitor_SMD:C_0805_2012Metric	1	CL21C101JBANNND	CL10C101JB8NNNC
C8	22p	Capacitor_SMD:C_0805_2012Metric	1	CL21C220JBANNNC	CL10C220JB8NNNC
IC1	GTIA_SOCKET	PinHeader_1x20_P2.54mm_male/female*	2	AliExpress	
J1	DBG	PinHeader_1x03_P2.54mm_Horizontal	1	AliExpress	
J2	VG	PinHeader_1x02_P2.54mm_Horizontal	1	AliExpress	
J3	YC	PinHeader_1x04_P2.54mm_Horizontal	1	AliExpress	
J4	VOUT	PinHeader_1x06_P2.54mm_Horizontal	1	AliExpress	
R1,R2,R3	3k	Resistor_SMD:R_0805_2012Metric	3	RC0805FR-073KL	RC0603FR-7W3KL
R4	1k5	Resistor_SMD:R_0805_2012Metric	1	RC0805FR-071K5L	RC0603FR-7W1K5L
R5	750	Resistor_SMD:R_0805_2012Metric	1	RC0805FR-07750RL	RC0603FR-07750RL
R6	374	Resistor_SMD:R_0805_2012Metric	1	RC0805FR-07374RL	RC0603FR-07374RL
R7	100	Resistor_SMD:R_0805_2012Metric	1	RC0805FR-07100RL	RC0603FR-7W100RL
R8	0	Resistor_SMD:R_0805_2012Metric	1	RC0805FR-070RL	RC0603FR-100RL
R9,R10	180	Resistor_SMD:R_0805_2012Metric	2	RC0805FR-13180RL	RC0603FR-10180RL
R11	150	Resistor_SMD:R_0805_2012Metric	1	RC0805FR-13150RL	RC0603FR-10150RL
R12,R13,R14,R15,R16,R17	75	Resistor_SMD:R_0805_2012Metric	6	RC0805FR-1375RL	RC0603FR-1075RL
U1	ICS501MILF	Package_SO:SO-8_3.9x4.9mm_P1.27mm	1	501MILF	
U2	74HCT175	Package_SO:SO-16_3.9x9.9mm_P1.27mm	1	CD74HCT175M96	
U3	CH32V003JxMx	Package_SO:SOP-8_3.9x4.9mm_P1.27mm	1	AliExpress	
U4,U5	74LVC1G07	Package_TO_SOT_SMD: SOT353/SC70/TSSOP5	2	SN74LVC1G07DCKR	
U6	FMS6400	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	1	AliExpress	

* Alternativ: IC-Sockel 40pol (Mittelstege müssen entfernt werden)

zum Programmieren des CH32V003 wird ein WCH-LinkE Online-Download-Debugger benötigt: 1 [AliExpress](#)