

hdvga2-R1 VGA Adapter with adjustable Horizontal and Vertical Delays for Centering
 Jed Margolin 4/30/2019

RefDes	Value	Description	Type
C1	0.1uF		
C2	10uF		
C3	10uF		
C4	0.1uF		
C5	10uF		
C6	100pF		
C7	560pF		
C8	0.1		
C9	0.1		
C10	0.0047uF	Mylar	
C11	0.1		
C12	.047pF	Mylar	
C13	.047uF	Mylar	
C14	0.1		
HD1	HD15F	VGA Connector	
R1	220	1/4W 5%	
R2	75	1/4W 5%	
R3	220	1/4W 5%	
R4	75	1/4W 5%	
R5	220	1/4W 5%	
R6	75	1/4W 5%	
R7	4.7K	1/4W 5%	
R8	100K	1/4W 5%	
R9	10K	1/4W 5%	
R10	10K	1/4W 5%	
R11	100K	1/4W 5%	3362P Trimpot
R12	5.6K	1/4W 5%	
R13	10K	1/4W 5%	3362P Trimpot
R14	10K	1/4W 5%	
R15	100K	1/4W 5%	3362P Trimpot
R16	10K	1/4W 5%	
R17	100K	1/4W 5%	3362P Trimpot
R18	10K	1/4W 5%	
SW1	SPST		SWITCH SPDT
U1	74HC132		
U2	74HC123		
U4	74HC74		
U5	74HC123		
Miscellaneous		IC Sockets with machine tooled pins (2) 14 pin, (2) 16 pin (4) M3x18 Nylon Standoffs	

(4) M3 Screws