

DIY 5 Channel Pixel  
[www.response-box.com/rgb](http://www.response-box.com/rgb)

Part	Value
A1	Amber LED 5MM
A2	Amber LED 5MM
A3	Amber LED 5MM
A4	Amber LED 5MM
A5	Amber LED 5MM
A6	Amber LED 5MM
ADRS	1x2 .1" header, optional
B1	Blue LED, 5mm
B2	Blue LED, 5mm
B3	Blue LED, 5mm
B4	Blue LED, 5mm
B5	Blue LED, 5mm
B6	Blue LED, 5mm
C2	10 uF 25v ELC-2,5 ES-2,5
C3	1 uF 15v ELC-2,5 ES-2,5
C4	.1 uF CAP-2,5 C-2,5
D1	Red LED, 5mm
D2	Red LED, 5mm
D3	Red LED, 5mm
D4	Red LED, 5mm
D5	Red LED, 5mm
D6	Red LED, 5mm
G1	Green LED, 5mm
G2	Green LED, 5mm
G3	Green LED, 5mm
G4	Green LED, 5mm
G5	Green LED, 5mm
G6	Green LED, 5mm
J1	RJ45 Jack
J2	RJ45 Jack
PGM	.1" x 5 programming header, optional
R12	1K
R101	Value depends on LED Voltage Drop
R102	Value depends on LED Voltage Drop
R103	Value depends on LED Voltage Drop
R104	Value depends on LED Voltage Drop
R105	Value depends on LED Voltage Drop
R106	Value depends on LED Voltage Drop
R107	Value depends on LED Voltage Drop
R108	Value depends on LED Voltage Drop
R109	Value depends on LED Voltage Drop
R110	Value depends on LED Voltage Drop
R111	1K RESUS-10 R-10
R112	1K RESUS-10 R-10
R114	1K RESUS-10 R-10
R115	1K RESUS-10 R-10
R116	Value depends on LED Voltage Drop

R117	Value depends on LED Voltage Drop
SERVO1	.1" x 3 pin header, optional
SERVO2	.1" x 3 pin header, optional
SERVO3	.1" x 3 pin header, optional
SRVO_PWR	.1" x 2 pin header, optional
T1	2N3904 NPN TRANSISTOR
T2	2N3904 NPN TRANSISTOR
T3	2N3904 NPN TRANSISTOR
T4	2N3904 NPN TRANSISTOR
T5	2N3904 NPN TRANSISTOR
U1	Microchip PIC 16F688 DIP
U2	MAX485 / SN75176 RS485 transceiver DIP8
U3	78L05 VOLTAGE REGULATOR TO-92
W1	White LED, 5mm
W2	White LED, 5mm
W3	White LED, 5mm
W4	White LED, 5mm
W5	White LED, 5mm
W6	White LED, 5mm