

		Document / Project reference: Multicolor LED Matrix Demo	PCB reference: STEVAL-ILL032V1(Display Panel)		Date:	21/11/2011				
		Compa	STMicroelectronics							
Category	S. No.	Reference Designator	Component Description	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number	Supplier	Supplier Ordering Code	Quantity	
ST Devices	1	U1,U2,U3,U4	STP24DP05BTR/ RGB Display driver	TQFP48	ST	STP24DP05BTR			4	
	2	U7,U8	M74HC245RM13 TR	SOP20	ST	M74HC245RM13TR			2	
	3	Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8	STS5PF30L/P- Channel Mosfet	SO-8	ST	STS5PF30L			8	
	4	U5,U6,U9,U10	ESDALC6V1W5/ Quad transil	SOT323-5L	ST	ESDLALC6V1W5			4	
	5	D1,D2	STPS3L60U/Sch ottky Diode	SMB	ST	STPS3L60U			2	
Connectors and jumpers	6	J1,J2	10 X 2 HEADER	10 X 2 BOX HEADER	3M Electronic Solutions Division	30320-6002HB	Mouser	517-30320-6002	2	
	7	J5,J7	2 pin Molex Connector	2 PIN Through hole	Phoenix Contact or equivalent	1729128	Mouser	651-1729128	2	
	8	J3,J4,J6,J8	BERG STRIP	Through Hole	Any		Samtec	TSW-150-32-G-S	4	
LEDs	9	D1 to D256	PLCC4 / RGB Led	SMD	LATBT66C-RS- 1+SU7-35+P7S	Osram	Digikey	LATBT66C-RS-1+SU7- 35+P7S--ND	256	
Capacitors	10	C1,C3,C6,C8,C10,C12	100nF	SMD0805	Panasonic - ECG or equivalent	ECJ-2VB1E104K or equivalent	Digikey	PCC1828CT-ND	6	
	11	C2,C4,C5,C7,C9,C11	10uF	Case A	Vishay/Sprague or equivalent	293D106X96R3A2T E3 or equivalent	Mouser	74- 293D106X96R3A2TE3	6	
	12	C13	220uF	SMD0805	Nichicon or equivalent	UKW1E221MPD	Mouser	647-UKW1E221MPD	1	
Resistors	13	R1,R2,R5,R6,R9,R10,R13,R14	100k	SMD0805	Panasonic - ECG or equivalent	ERJ-6GEYJ104V	Digikey	P100KACT-ND	8	
	14	R3,R4,R7,R8,R11,R12,R15,R16 ,R25,R26,R27,R28,R29,R30,R4 7,R48,R49,R50,R51,R52	1k	SMD0805	Panasonic - ECG or equivalent	ERJ-6GEYJ102V	Digikey	P1.0KATR-ND	20	
	15	R17,R18,R19,R20,R21,R22,R2 3,R24,R31,R32,R33,R34,R35,R 36,R37,R38,R39,R40,R41,R42, R43,R44,R45,R46,R53,R54,R5 5,R56,R57,R58,R59,R60	82	SMD0805	Panasonic - ECG or equivalent	ERJ-6ENF82R0V	Digikey	P82.0CTR-ND	32	