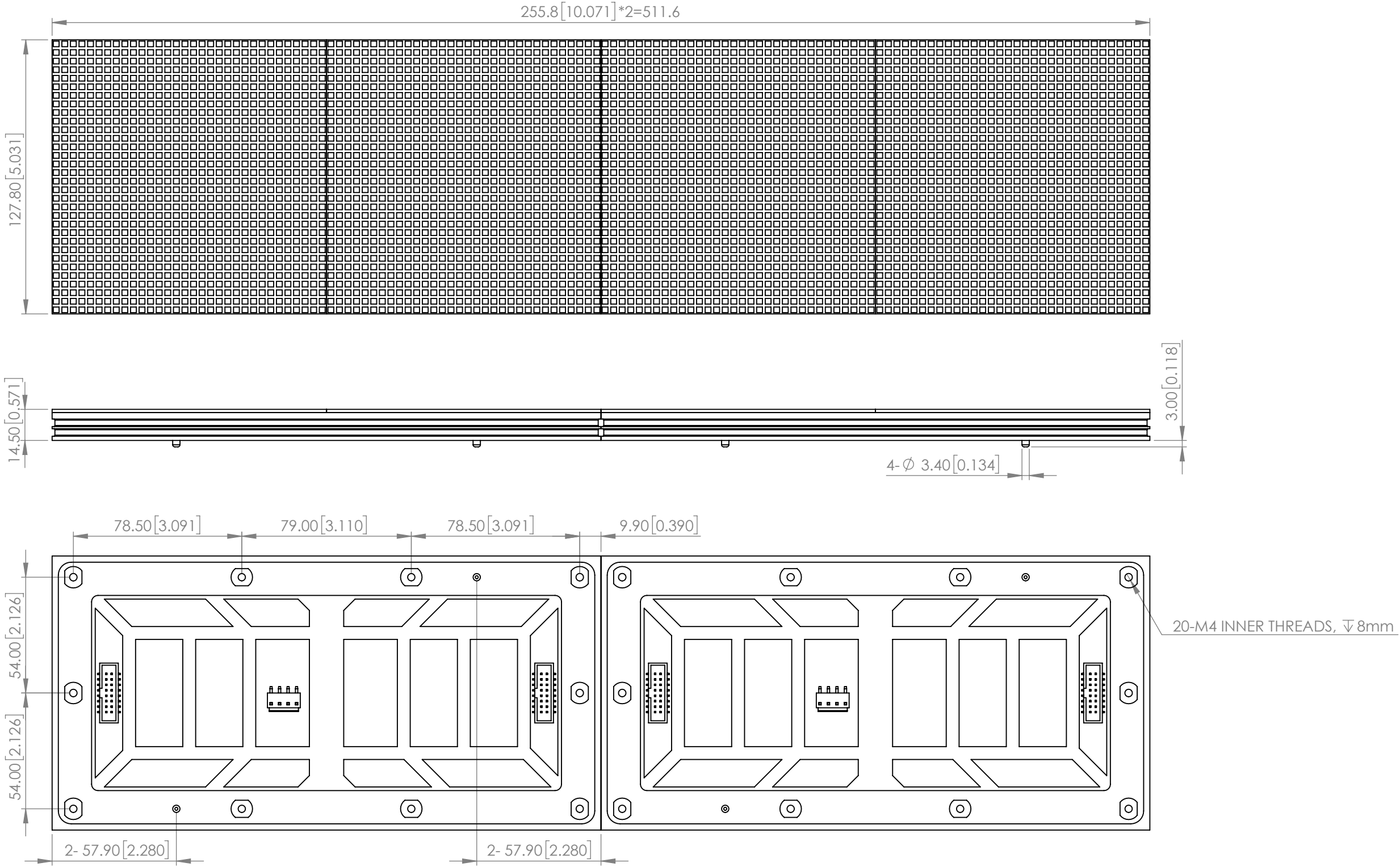
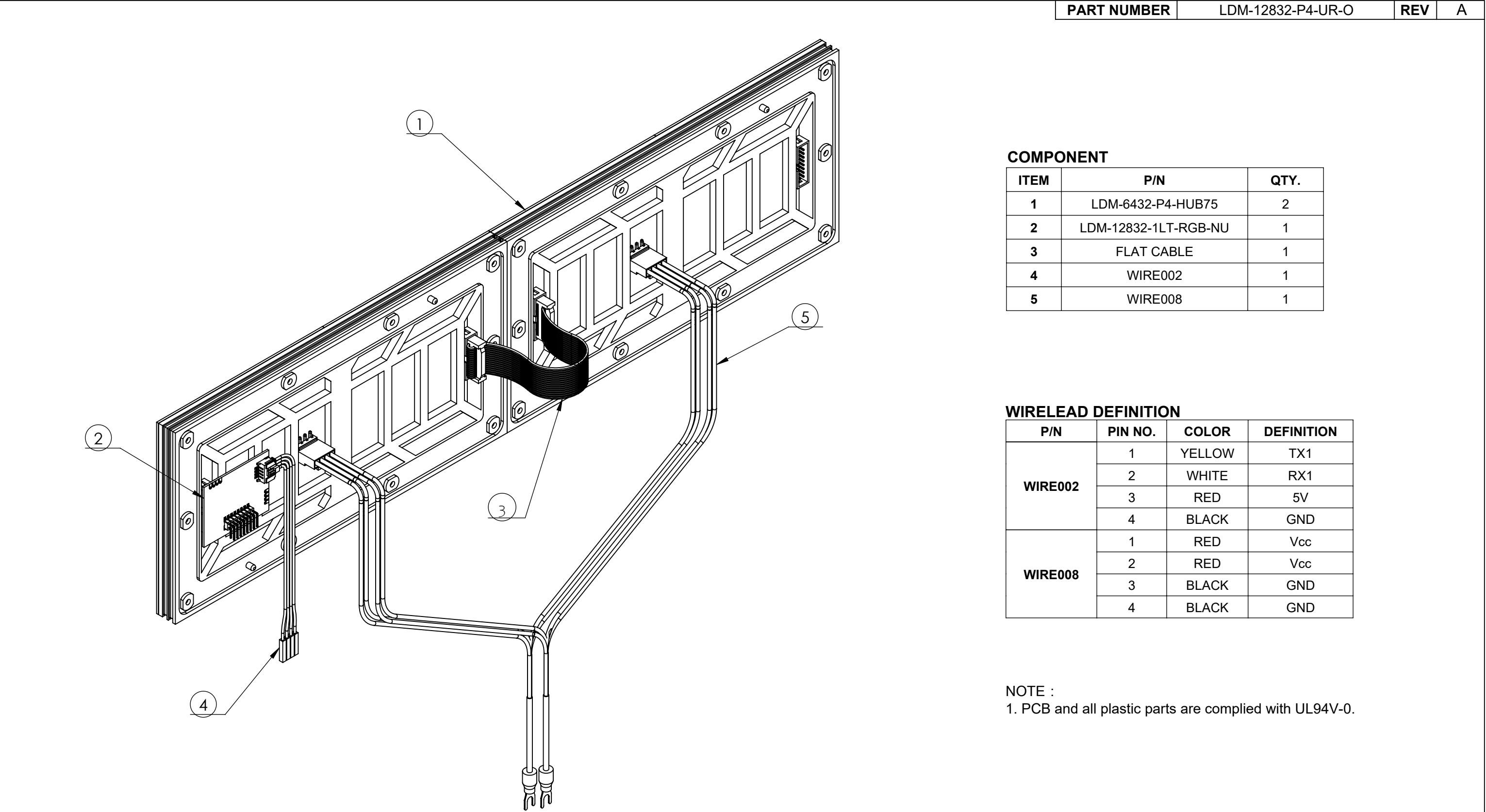


PART NUMBER		LDM-12832-P4-UR-O	REV	A
REV	E.C.N. NUMBER AND REVISION COMMENTS		DATE	
A	ECN-Lumex202300030		03.06.23	



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 425 N. GARY AVE. CAROL STREAM, IL 60188 PHONE : 800-278-5666 FAX : 630-315-2150 WEB : WWW.LUMEX.COM	ezDisplay P4 DOT MATRIX, 128*32 PIXEL, 511.6mm(L)*127.8mm(H), RGB LEDs, UART INTERFACE, VF DC 5V, IF 12A MAX.		DATE : 2021.03.11	DRAWN BY : E.C.
	THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE.		PAGE : 1 OF 6	CHKD BY : T.S.
	CONFIDENTIAL INFORMATION		SCALE : NTF	APRVD BY : G.Y.
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PART NUMBER	LDM-12832-P4-UR-O	REV	A
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COMPONENT

ITEM	P/N	QTY.
1	LDM-6432-P4-HUB75	2
2	LDM-12832-1LT-RGB-NU	1
3	FLAT CABLE	1
4	WIRE002	1
5	WIRE008	1

WIRELEAD DEFINITION

P/N	PIN NO.	COLOR	DEFINITION
WIRE002	1	YELLOW	TX1
	2	WHITE	RX1
	3	RED	5V
	4	BLACK	GND
WIRE008	1	RED	Vcc
	2	RED	Vcc
	3	BLACK	GND
	4	BLACK	GND

NOTE :
1. PCB and all plastic parts are complied with UL94V-0.

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GENERAL SPECIFICATION

ITEM	DESCRIPTION	UNIT
MODULE SIZE	511.6(L) × 127.8(W)	mm
PIXEL PITCH	4	mm
PIXEL FORM	RGB	--
MODULE RESOLUTION	128 x 32	dot
DRIVE METHOD	1/8 SCAN	--
CONTROLLER INTERFACE	UART	--
MAX CURRENT	12	A
BRIGHTNESS	5500	cd/m2
TEMPERATURE RANGE	-20~60, 10~80%RH	°C
FRAME COLOR	BLACK	--

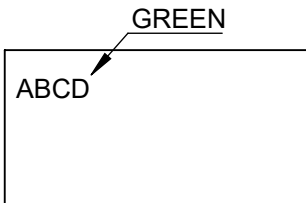
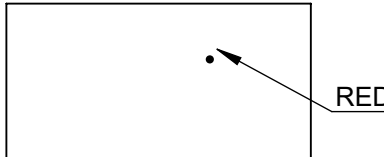
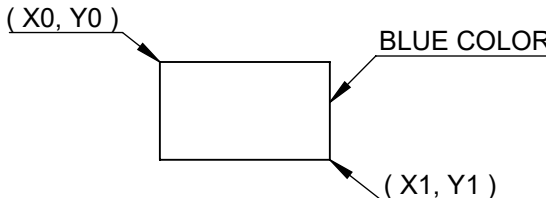
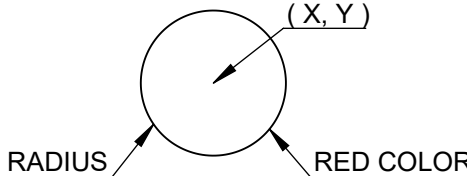
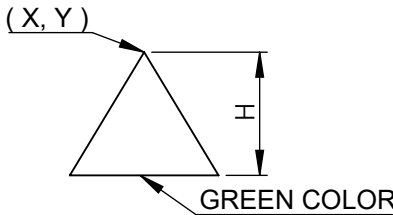
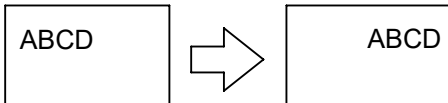
LED ELECTRO-OPTICAL CHARACTERISTIC TA=25°C

PARAMETER		MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH	R	-	622	-	nm	If=20mA
	G	-	520	-		If=20mA
	B	-	470	-		If=20mA
LUMINOUS INTENSITY	R	-	600	-	mcd	If=20mA
	G	-	1350	-		If=20mA
	B	-	280	-		If=20mA
BRIGHTNESS	W	-	5500	-	cd/m²	-
COLOR TEMPERATURE	W	-	9000	-	K	-
VIEW ANGLE		-	110	-	2x theta1/2	-
EPOXY LENS FINISH		WATER CLEAR				

UART CONFIGURATION

ITEM	SETING VALUE
BAUD RATE	115200
DATA BIT	8
STOP BIT	1
PARITY BIT	NONE
FLOW CONTROL	NONE

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			PART NUMBER	LDM-12832-P4-UR-O	REV	A
DIAGRAM	COMMAND*	EXAMPLE				
	Write a 5x7 RGB String	ate1=(line,column,Color 0~255*,String) ate1=(0,0,4,ABCD)				
	Set a Color Pixel	atee=(X position,Y position, Color 0~255*) atee=(48,6,96) : '96' Red color				
	Draw a Rectangle	at91=(X0 position,Y0 position,X1 position,Y1 position,Color 0~255*) at91=(0,0,55,7,2) : '2' blue color				
	Draw a Circle	at94=(X position,Y position,Radius,Color 0~255*) at94=(48,4,3,64) : '64' red color				
	Draw a tip upward Triangle	at96=(X position,Y position,Height,Color 0~255*) at96=(48,1,3,4) : '4' green color				
 SCROLL RIGHTWARD	Scroll the whole display rightward	atd5=(shif time in ms) atd5=(20)				

* Please refer to detail commands/ **COLOR CODE Table** on Lumex website: www.lumex.com/ezdisplay

COLOR CODE TABLE

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111

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ezDisplay P4 DOT MATRIX, 128*32 PIXEL, 511.6mm(L)*127.8mm(H), RGB LEDs, UART INTERFACE, VF DC 5V, IF 12A MAX.

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DATE : 2021.03.11

DRAWN BY : E.C.

PAGE : 5 OF 6

CHKD BY : T.S.

SCALE : NTF

APRVD BY : G.Y.

UNIT : mm [INCH]

ASCII CODE OF 5X7 FONTS AND 8X16 FONTS

Hex	Symbol	Hex	Symbol	Hex	Symbol
0x20		0x40	@	0x60	`
0x21	!	0x41	A	0x61	a
0x22	"	0x42	B	0x62	b
0x23	#	0x43	C	0x63	c
0x24	\$	0x44	D	0x64	d
0x25	%	0x45	E	0x65	e
0x26	&	0x46	F	0x66	f
0x27		0x47	G	0x67	g
0x28	(	0x48	H	0x68	h
0x29	)	0x49	I	0x69	i
0x2a	*	0x4a	J	0x6a	j
0x2b	+	0x4b	K	0x6b	k
0x2c	,	0x4c	L	0x6c	l
0x2d	-	0x4d	M	0x6d	m
0x2e	.	0x4e	N	0x6e	n
0x2f		0x4f	O	0x6f	o
0x30	0	0x50	P	0x70	p
0x31	1	0x51	Q	0x71	q
0x32	2	0x52	R	0x72	r
0x33	3	0x53	S	0x73	s
0x34	4	0x54	T	0x74	t
0x35	5	0x55	U	0x75	u
0x36	6	0x56	V	0x76	v
0x37	7	0x57	W	0x77	w
0x38	8	0x58	X	0x78	x
0x39	9	0x59	Y	0x79	y
0x3a	:	0x5a	Z	0x7a	z
0x3b	;	0x5b	]	0x7a	{
0x3c	<	0x5c	\	0x7a	
0x3d	=	0x5d	[	0x7a	}
0x3e	>	0x5e	^	0x7a	~
0x3f	?	0x5f	_	0x7a	<-

ASCII CODE OF 16X16 FONTS

Hex	Symbol
0x30	0
0x31	1
0x32	2
0x33	3
0x34	4
0x35	5
0x36	6
0x37	7
0x38	8
0x39	9

NO. OF 8X16 PATTERN

No.	Symbol
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

NO. OF 32X32 PATTERN

No.	Symbol
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	°C
11	°F
12	☼

NO. OF 8X8 PATTERN

No.	Symbol
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

NO. OF 16X16 PATTERN

No.	Symbol
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

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