

# LUM unit series

\* Omitting "LUM" from the part No.

		Full Color		Chip LED type (Monochrome)			Chip LED type			Short LED chip LED type		Long louver chip LED type		Flat louver chip LED type		Potting Lens type		
16 × 16 Dots	□ 96 96×96mm						256HML 350		256HMU 356									
	Dot size						□2.1×2.3		□2.0×2.5									
16 × 32 Dots	□ 40×2 40×80mm																512CMU 300	
	Dot size																□1.1×1.3	
	□ 64×2 64×128mm						512HML 300	512HML 320	512HMU 306		512HMU 308	512HML 301	512HMU 307	512HML 303	512HMU 309			
	Dot size						□2.1×2.3	□2.1×2.3	□2.0×2.5		□2.0×2.5	□2.1×2.3	□2.0×2.5	□2.1×2.3	□2.0×2.5			
	□ 96×2 96×192mm	LPM5123 BMUA51F		512HD 351	512HY 351	512HU 351	512HML 350											LPM-5123 MU350
Dot size	φ2.8		φ2	φ2	φ2	□2.1×2.3											φ2.8	
24 × 24 Dots	□ 96 96×96mm																	
	Dot size																	
	Pin function																	
24 × 48 Dots	□ 96×2 96×192mm	LPM-1153 BMU802					115HML 300		115HMU 306		115HML 301	115HMU 308	115HML 302	115HMU 307	115HML 303	115HMU 309		
	Dot size	φ2.8					□2.1×2.3		□2.0×2.5		□2.1×2.3	□2.0×2.5	□2.1×2.3	□2.0×2.5	□2.1×2.3	□2.0×2.5		
24 × 72 Dots	□ 60 60×180mm																	172CMU 300
	Dot size																	□1.1×1.3

LED displays

●Main specifications

Size	Display Type	Type	Emitting color	Emitting material	Peak Wave length (nm)	Dot Size (mm)	Dot Pitch (mm)	Number of Dot (dot)	VDD (V)	Icc1 MAX. (mA)	VLED (V)	Icc2 MAX. (A)	Luminance Typ. (cd / m <sup>2</sup> )	Operating Frequency Max. (MHz)	Driving System
□96	Standard Chip LED	LUM-256HML350	Red	GaAlAs	660	2.1 x 2.3	6	16 x 16	5	25	5	1.8	100	20	Memory Type 1/16Duty
	Green	GaP	563	100											
	High Brightness Chip LED	LUM-256HML356	Red	AlGalnP	640	2.0 x 2.5	6	16 x 16	5	20	5	2.2	200	20	Memory Type 1/16Duty
	Green	GaP	568	120											
□40x2	High Brightness Chip LED	LUM-512CMU300	Red	AlGalnP	630	1.1 x 1.3	2.5	16 x 32	5	80	4.5	2	100	13	Shift Register Type 1/16Duty
Green	GaP	570	120												
□64x2	Standard Chip LED	LUM-512HML300	Red	GaAlAs	660	2.1 x 2.3	4	16 x 32	5	30	5	2.7	130	20	Memory Type 1/16Duty
	Green	GaP	563	130											
	Standard Chip LED	LUM-512HML301	Red	GaAlAs	660	2.1 x 2.3	4	16 x 32	5	30	5	2.7	130	20	Memory Type 1/16Duty
	Green	GaP	563	130											
	Standard Chip LED	LUM-512HML303	Red	GaAlAs	660	2.1 x 2.3	4	16 x 32	5	30	5	2.7	130	20	Memory Type 1/16Duty
	Green	GaP	563	130											
	Standard Chip LED	LUM-512HML320	Red	GaAlAs	660	2.1 x 2.3	4	16 x 32	5	100	5	3.2	130	10	Shift Register Type 1/16Duty
	Green	GaP	563	130											
	High Brightness Chip LED	LUM-512HML306	Red	AlGalnP	640	2.0 x 2.5	4	16 x 32	5	30	5	4	300	20	Memory Type 1/16Duty
	Green	GaP	568	220											
	High Brightness Chip LED	LUM-512HML307	Red	AlGalnP	640	2.0 x 2.5	4	16 x 32	5	30	5	4	300	20	Memory Type 1/16Duty
	Green	GaP	568	220											
	High Brightness Chip LED	LUM-512HML308	Red	AlGalnP	640	2.0 x 2.5	4	16 x 32	5	30	5	4	300	20	Memory Type 1/16Duty
	Green	GaP	568	220											
High Brightness Chip LED	LUM-512HML309	Red	AlGalnP	640	2.0 x 2.5	4	16 x 32	5	30	5	4	300	20	Memory Type 1/16Duty	
Green	GaP	568	220												
□96x2	Full color Potting Lens	LPM5123BMUA51F	Red	AlGalnP	624	φ2.8	6	16 x 32	5	400	5	8	500	10	Shift Register Internal & external gray levels lock 1024 gray levels 1/8Duty
	Green	InGaN	527	900											
	Blue	InGaN	470	160											
	Standard Chip LED	LUM-512HML350	Red	GaAlAs	660	2.1 x 2.3	6	16 x 32	5	20	5	4.3	100	20	Memory Type 1/16Duty
	Green	GaP	563	100											
	High Brightness Chip LED	LPM-5123MU350	Red	AlGalnP	625	φ2.8	6	16 x 32	5	20	5	5.2	250	20	Memory Type 1/16Duty
	Green	AlGalnP	571	200											
	High Brightness Chip LED	LUM-512HY351	Yellow	AlGalnP	590	φ2	6	16 x 32	5	30	5	2	2000	20	Memory Type 1/16Duty
	High Brightness Chip LED	LUM-512HD351	Orange	AlGalnP	612	φ2	6	16 x 32	5	30	5	2	3000	20	Memory Type 1/16Duty
	High Brightness Chip LED	LUM-512HU351	Red	AlGalnP	644	φ2	6	16 x 32	5	30	5	2	1500	20	Memory Type 1/16Duty
	Full color Potting Lens	LPM-1153BMU802	Red	AlGalnP	624	φ2.8	4	24 x 48	5	300	5	6	450	10	Shift Register Internal & external gray levels clock 1024 gray levels
	Green	InGaN	527	1000											
	Blue	InGaN	470	140											
	Standard Chip LED	LUM-115HML300	Red	GaAlAs	660	2.1 x 2.3	4	24 x 48	5	50	5	4	100	20	Memory Type 1/24Duty
	Green	GaP	563	100											
	Standard Chip LED	LUM-115HML301	Red	GaAlAs	660	2.1 x 2.3	4	24 x 48	5	50	5	4	100	20	Memory Type 1/24Duty
	Green	GaP	563	100											
	Standard Chip LED	LUM-115HML302	Red	GaAlAs	660	2.1 x 2.3	4	24 x 48	5	50	5	4	100	20	Memory Type 1/24Duty
Green	GaP	563	100												
Standard Chip LED	LUM-115HML303	Red	GaAlAs	660	2.1 x 2.3	4	24 x 48	5	50	5	4	100	20	Memory Type 1/24Duty	
Green	GaP	563	100												
High Brightness Chip LED	LUM-115HML306	Red	AlGalnP	640	2.0 x 2.5	4	24 x 48	5	50	5	7.5	200	20	Memory Type 1/24Duty	
Green	GaP	568	170												
High Brightness Chip LED	LUM-115HML307	Red	AlGalnP	640	2.0 x 2.5	4	24 x 48	5	50	5	7.5	200	20	Memory Type 1/24Duty	
Green	GaP	568	170												
High Brightness Chip LED	LUM-115HML308	Red	AlGalnP	640	2.0 x 2.5	4	24 x 48	5	50	5	7.5	200	20	Memory Type 1/24Duty	
Green	GaP	568	170												
High Brightness Chip LED	LUM-115HML309	Red	AlGalnP	640	2.0 x 2.5	4	24 x 48	5	50	5	7.5	200	20	Memory Type 1/24Duty	
Green	GaP	568	170												
□60x3	High Brightness Chip LED	LUM-172CMU300	Red	AlGalnP	630	1.1x 1.3	2.5	24 x 72	5	40	5	5.5	100	20	Memory Type 1/24Duty
Green	GaP	570	120												

### Notes

- No technical content pages of this document may be reproduced in any form or transmitted by any means without prior permission of ROHM CO.,LTD.
- The contents described herein are subject to change without notice. The specifications for the product described in this document are for reference only. Upon actual use, therefore, please request that specifications to be separately delivered.
- Application circuit diagrams and circuit constants contained herein are shown as examples of standard use and operation. Please pay careful attention to the peripheral conditions when designing circuits and deciding upon circuit constants in the set.
- Any data, including, but not limited to application circuit diagrams information, described herein are intended only as illustrations of such devices and not as the specifications for such devices. ROHM CO.,LTD. disclaims any warranty that any use of such devices shall be free from infringement of any third party's intellectual property rights or other proprietary rights, and further, assumes no liability of whatsoever nature in the event of any such infringement, or arising from or connected with or related to the use of such devices.
- Upon the sale of any such devices, other than for buyer's right to use such devices itself, resell or otherwise dispose of the same, no express or implied right or license to practice or commercially exploit any intellectual property rights or other proprietary rights owned or controlled by
- ROHM CO., LTD. is granted to any such buyer.
- Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

#### About Export Control Order in Japan

Products described herein are the objects of controlled goods in Annex 1 (Item 16) of Export Trade Control Order in Japan.

In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.