



一華半導體股份有限公司
MOSDESIGN SEMICONDUCTOR CORP.

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ON/OFF, OSH

RANDOM / SEQUENCE

5 LED 閃爍 IC

LED FLASH

M1510



FEATURES 功能敘述

Built-in / Ext.Rosc.

OP1 : One-Shot / ON-OFF, Default ON-OFF.

OP2 : Random / Sequence, Default Random.

P/N	Rosc	Fosc (KHz)	Duty	OSH Cycle	LED Flash	F _{LED} (Hz)	Power
M1510-2	EXT.	100	1/10	39	L1 → L5	5	OFF
M1510-8	INT.	100	1/10	4	L1 → L5	5	OFF

APPLICATION 產品應用

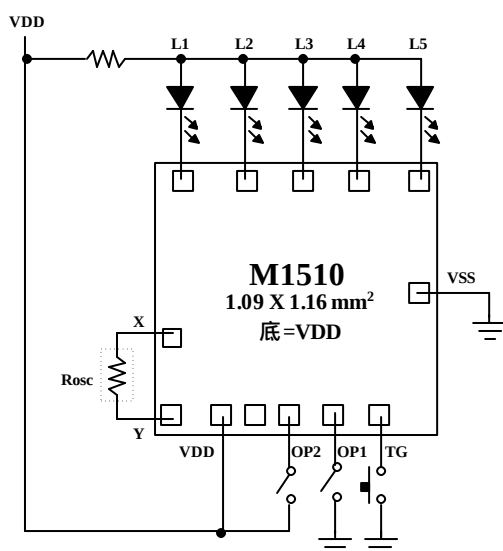
Arcade game system, Toys.

ELECTRICAL CHARACTERISTICS 電氣規格

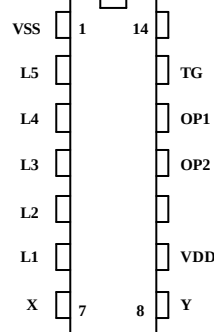
(@V_{DD}=3V unless otherwise specified)

Characteristics	Sym.	Min.	Typ.	Max.	Unit	REMARKS
工作電壓 Operating Voltage	V _{DD}	—	3	3.5	V	
工作電流 Operating Current	I _{OP}	—	0.1	0.5	mA	No load
靜態電流 Quiescent Current	I _{SB}	—	1	5	μA	
推動電流 Driving Current	I _{OL}	20	—	—	mA	@ V _{DS} =1.2V
振盪頻率 Oscillator Frequency	F _{OSC}	—	100	—	KHz	±30% TOL., Rosc=180KΩ
工作溫度 Operating Temperature	Temp.	0	25	60		

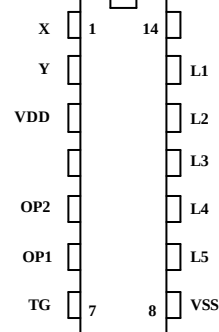
APPLICATION DIAGRAM 參考電路圖



M1510P



M1510P(HT)



*All specs and applications shown above subject to change without prior notice.

(以上電路及規格僅供參考,本公司得逕行修正)



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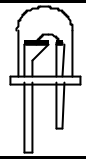
ON/OFF, OSH

RANDOM / SEQUENCE

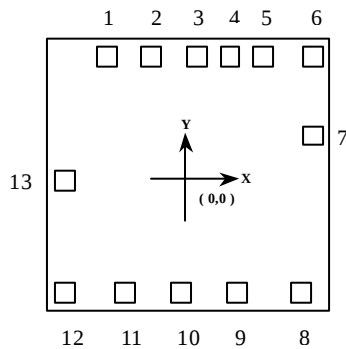
5 LED 閃爍 IC

LED FLASH

M1510



ASSIGNMENT & POSITION



UNIT : um			
No.	NAME	X	Y
1	TG	-412.5	442.5
2	SEL1	-255	442.5
3	SEL2	-62.25	442.5
4	T	93.75	455.25
5	VDD	238.5	442.5
6	OSC2	409.5	442.5
7	OSC1	409.5	-64.5
8	L1	364.5	-446.25
9	L2	180	-446.25
10	L3	-1.5	-446.25
11	L4	-186	-446.25
12	L5	-367.5	-446.25
13	VSS	-412.5	-77.25

* CHIP SIZE ~ 1.09 x 1.16 mm²

* IC substrate should be connected to VDD in PCB (PCB 上 IC 必須接 VDD)