



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Control over power

AC Output Buffered Modules

- **Compatible with 5 & 15 Volt Logic Systems**
- **Buffered Inverting and Non-Inverting Modules**
- **Zero Voltage AC Switching**

Buffered output modules contain additional internal amplification to reduce drive requirements to a level suitable for the MOS devices used in many micro-processor systems. To further reduce the need for additional interface components, they are available with both inverting and non-inverting inputs, for 5 volt or 15 volt logic.

INPUT SPECIFICATIONS

(All voltages referenced to pin 5)

	6411	6421	6412	6422
Nominal Input Voltage [Vdc]	5	5	5	5
Output Module Type	Non-Inverting	Inverting	Non-Inverting	Inverting
Must Turn On Voltage Range @pin 4 [Vdc]	0.0 - 0.8	2.4 - 6.0	0.0 - 0.8	2.4 - 6.0
Must Turn Off Voltage Range @pin 4 [Vdc]	2.4 - 6.0	0.0 - 0.8	2.4 - 6.0	0.0 - 0.8
Max. Input On-Current (Snk) @pin 4 [µA]	75 @0.8V 100 @0.0V	—	75 @0.8V 100 @0.0V	—
Max. Input On-Current (Source) @pin 4 [µA]	—	75 @2.4V 250 @6.0V	—	75 @2.4V 250 @6.0V
Max. Output Off-State Input Current @pin 4 [µA] ②	10	10	10	10
Logic Supply Voltage Range [Vdc]	3.5 - 6.0	3.5 - 6.0	3.5 - 6.0	3.5 - 6.0
Max. Logic Supply Current @5Vdc (w/o LED) [mA] ①	20	20	20	20
Max. Logic Supply Current @5Vdc (w/ LED) [mA] ①	15	15	15	15

	6441	6451	6442	6452
Nominal Input Voltage [Vdc]	15	15	15	15
Output Module Type	Non-Inverting	Inverting	Non-Inverting	Inverting
Must Turn On Voltage Range @pin 4 [Vdc]	0.0 - 2.0	8.0 - 18	0.0 - 2.0	8.0 - 18
Must Turn Off Voltage Range @pin 4 [Vdc]	8.0 - 18	0.0 - 2.0	8.0 - 18	0.0 - 2.0
Max. Input On-Current (Snk) @pin 4 [µA]	175 @2.0V 250 @0.0V	—	175 @2.0V 250 @0.0V	—
Max. Input On-Current (Source) @pin 4 [µA]	—	75 @8.0V 200 @18V	—	75 @8.0V 200 @18V
Max. Input Current for Output Off-State @pin 4 [µA] ②	10	10	10	10
Logic Supply Voltage Range [Vdc]	10 - 18	10 - 18	10 - 18	10 - 18
Max. Logic Supply Current @5Vdc (w/o LED) [mA] ①	25	25	25	25
Max. Logic Supply Current @5Vdc (w/ LED) [mA] ①	22	22	22	22

OUTPUT SPECIFICATIONS

Load Current Range @45° C [A]	0.02 - 3.5	0.02 - 3.5	0.02 - 3.5	0.02 - 3.5
Load Voltage Range [Vdc]	12 - 140	12 - 140	24 - 280	24 - 280
Max. Surge Current 1 Cycle (Non-Rep) [Apk]	80	80	80	80
Max. On-State Voltage [Vdc]	1.5	1.5	1.5	1.5
Max. Off-State Leakage [mA]	5.0	5.0	5.0	5.0
Max. Turn On Time	1/2 Cycle	1/2 Cycle	1/2 Cycle	1/2 Cycle
Max. Turn Off Time	1/2 Cycle	1/2 Cycle	1/2 Cycle	1/2 Cycle
Transient Overvoltage [Vpk]	400	400	600	600

GENERAL NOTES

- ① LED optional. Placed in series with pin 3 for status indication.
- ② Max. allowable leakage current from driver maintain output off-state.

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For recommended applications and more information contact:

USA: (800) 8 CRYDOM • (800) 827-9366 • (619) 715-7200 • fax (619) 715-7280

Crydom Corp. 9525 Chesapeake Drive, San Diego, CA 92123 • e-mail: sales@crydom.com

WEB SITE: <http://www.crydom.com> FASTFAX Product Information: (888) 267-9191

UK: (44)1202 812300 • fax (44)1202 812340 Crydom International Ltd., 85, Condor Close,

Woolbridge Industrial Estate, Three-Legged Cross, Wimborne, Dorset, England BH21 6SU

GERMANY: (49) (0)6874 182580 • fax (49)(0)6874 182585 Crydom GmbH,

Gewerbegebiet Im Schachen, D-66687 Nunkirchen, Germany • e-mail: vertrieb@crydom.com



