Notice for TAIYO YUDEN products

Please read this notice before using the TAIYO YUDEN products.

/!\ REMINDERS

■Product information in this catalog is as of October 2008. All of the contents specified herein are subject to change without notice due to technical improvements, etc. Therefore, please check for the latest information carefully before practical application or usage of the Products.

Please note that Taiyo Yuden Co., Ltd. shall not be responsible for any defects in products or equipment incorporating such products, which are caused under the conditions other than those specified in this catalog or individual specification.

- Please contact Taiyo Yuden Co., Ltd. for further details of product specifications as the individual specification is available.
- Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.
- All electronic components or functional modules listed in this catalog are developed, designed and intended for use in general electronics equipment.(for AV, office automation, household, office supply, information service, telecommunications, (such as mobile phone or PC) etc.). Before incorporating the components or devices into any equipment in the field such as transportation,(automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network (telephone exchange, base station) etc. which may have direct influence to harm or injure a human body, please contact Taiyo Yuden Co., Ltd. for more detail in advance.

Do not incorporate the products into any equipment in fields such as aerospace, aviation, nuclear control, submarine system, military, etc. where higher safety and reliability are especially required.

In addition, even electronic components or functional modules that are used for the general electronic equipment, if the equipment or the electric circuit require high safety or reliability function or performances, a sufficient reliability evaluation check for safety shall be performed before commercial shipment and moreover, due consideration to install a protective circuit is strongly recommended at customer's design stage.

- The contents of this catalog are applicable to the products which are purchased from our sales offices or distributors (so called "TAIYO YUDEN's official sales channel"). It is only applicable to the products purchased from any of TAIYO YUDEN's official sales channel.
- Please note that Taiyo Yuden Co., Ltd. shall have no responsibility for any controversies or disputes that may occur in connection with a third party's intellectual property rights and other related rights arising from your usage of products in this catalog. Taiyo Yuden Co., Ltd. grants no license for such rights.
- Caution for export

Certain items in this catalog may require specific procedures for export according to "Foreign Exchange and Foreign Trade Control Law" of Japan, "U.S. Export Administration Regulations," and other applicable regulations. Should you have any question or inquiry on this matter, please contact our sales staff.

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CCFL インバータ

CCFL INVERTER

品番 KBI-B02D-RH Part No.



特長 FEATURES

- ·CCFL2灯用
- ・小型形状
- ・調光機能付き
- ・ON/OFF機能付き

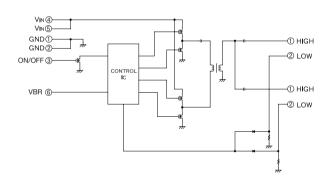
- · For dual CCFLs
- · Small type CCFL inverter unit
- Brightness control function and ON/OFF function installed

用途 APPLICATIONS

・STN、TFT LCDモジュールバックライト用電源

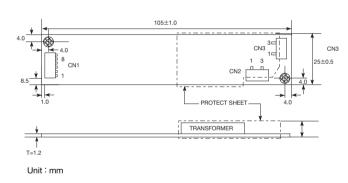
Power supply for backlight in LCD module(STN/TFT)

ブロック図 BLOCK DIAGRAM



OUTPUT

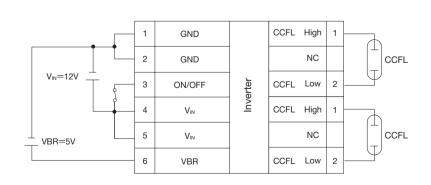
外形寸法 OUTLINE DIMENSIONS



応用回路 APPLICATIONS

BRIGHT

Brightness min
Brightness max
CCFL
Turn on
Turn off



Interface Connector	Connector Part No. (Maker Name)	Symbol
Input Connector	IL-Z-6PL-SMTY(JAE)	CN1
CCFL Connector	SM02(8.0) B-BHS-1(JST)	CN2, CN3

項目 Parameter	記号 Symbol	条件 Conditions	定格值 Ratings	単位 Unit	
動作温度範囲 Operating Temperature Range	Topr	無風 Convection cooling	0~+60	°C	
保存温度範囲 Storage Temperture Range	Tstg	無風 Convection cooling	-20~+85	°C	
動作湿度 Operating Humidity	Hopr	結露無きこと Free from condition	20~90	%RH	
保存湿度 Storage Humidity	Hstg	結露無きこと Free from condition	5~95	%RH	
入力電圧 Input Voltage	V _{IN}	連続動作 Continuous Operation	10.8~13.2	VDC	

電気的特性 ELECTRICAL CHARACTERISTICS

Ta=25°C±5°C

項目 Parameter	記号 Symbol	条件 Conditions	min	typ	max	単位 Unit
入力電流 Input Current	I _{IN}	V _{IN} =DC 12V 調光(Brightness)=max	_	0.56	_	А
開放電圧 Start-UP Voltage	Vo	V _{IN} =DC 10.8V Ta=0°C 調光(Brightness)=max	1450	_	_	Vrms
管電流	la.	調光(Brightness)=max	_	6.0	_	mArms
Lamp Current	lo	調光(Brightness)=min	_	3.0	_	marms
点灯周波数 Oscillation Frequency	f	V _{IN} =DC 12V 調光(Brightness)=max	_	65	_	k Hz

お断り SPECIAL NOTICE

- ■仕様の詳細については、別に用意してありますので、各営業所までお問い合わせください。
 - また、RoHS 対応については、個別にお問い合わせください。
 - なお、ここに記載された規格値は、改良のために予告なく変更されることがあります。
 - 従って、納入仕様書等を十分ご確認の上、ご使用のほどお願い申し上げます。
- Please contact of our offices for further details of specifications and RoHS compliance.
- All of the standard values listed here are subject to change without notice due to technical improvements.
- Therefore, please check the specifications carefully before use.

セレクションガイド Selection Guide



要素技術 Essential Technologies



開発ステップ Development Step



使用上の注意 Precautions



⚠当社カタログをご使用の際には「当社製品に関するお断り」を必ずお読みください。

最先端要素技術の融合によるインテリジェント化構想

"Super Intelligent Concepts" through Advanced Integrated Technologies.

要素技術をドラスティックに展開し更なる多機能化を追求

Combine proven core technologies to create highly multi-functional devices.

ニーズ Needs

アプローチ Approach

トレンド Trends

インテリジェントモジュール Intelligent Module

実装技術 Packaging technology

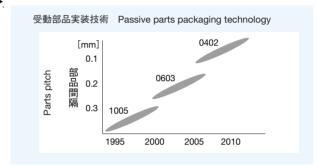


半田FC 実装 Solder FC packaging



0402 チップ実装 0402 Chip size packaging

半導体実装技術 Semiconductor packaging technology 接 に 0.3 2000 2005



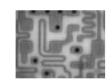
COB (ベアチップ Bare chip) BGA

お客様

Downsizing

高密度

回路設計技術 Circuit design technology



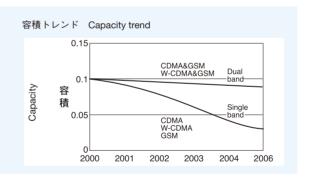
マイクロストリップライン Micro strip line

半導体 I C Semiconductor IC



回路シミュレーション技術 Circuit simulation technology

半導体評価技術 Semiconductor evaluation technology



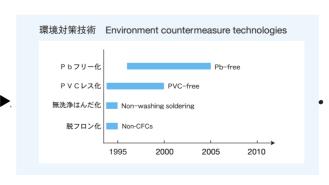


自然との調和 Environmentally friendly processes

自然に優しさを Environmentally friendly processes

Pb フリー Pb-free

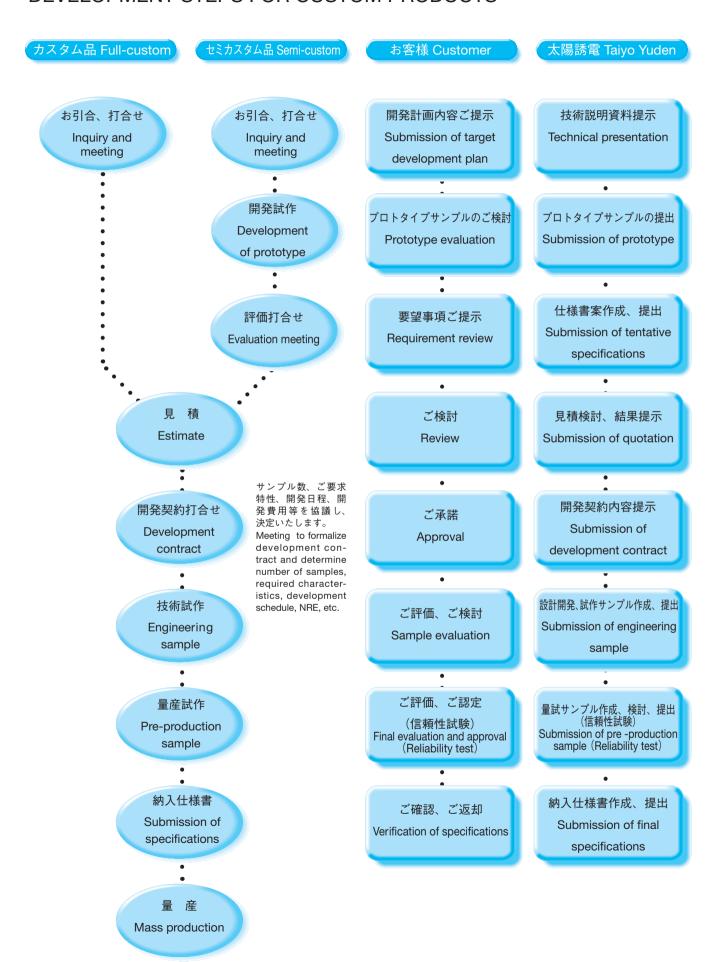
樹脂 (PVCレス) PVC-free resins



環境対策 Enviroument countermeasure

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TAIYO YUDEN 2009
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カスタム商品の開発ステップ **DEVELOPMENT STEPS FOR CUSTOM PRODUCTS**



1. Storage and operating

conditions

Precautions on the use of functional module, resonators

The products listed in this catalog are not designed for use under the following conditions. Storage and/or usage

2.Transportation and handling

mounted onto a printed board, please consult Taiyo Yuden Technical Services.

3.Applications

- 1) Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.
- 2) All electronic components listed in this catalog are developed, designed and intended for use in general electronics equipment (for AV, household, office supply, information service, telecommunications, etc.). Before using the components in any medical equipment, space equipment, nuclear equipment, disaster prevention equipment, etc. where higher safety and reliability are duly required, the applicability and suitability of the electronic components must be fully evaluated to ensure correct operation in these types of equipment. In addition, for the general electronic components which are used under specific conditions or installed in special equipment where a high concern for safety and reliability exist, evaluation of the safety function of the said components shall be thoroughly performed and when applicable, a protective circuit shall be added in design stage.

^{*}The above matters are general instructions for all components. For specific guidelines on the use of the particular components, please refer to the individual part specifications where detailed instructions are listed.