

TLV7011-2-3-41EVM User's Guide

The TLV70x1 family consist of single-channel, low-voltage, low-power comparators packaged in the ultrasmall DPW package measuring $0.8 \times 0.8 \times 0.4$ mm³. TLV7011-2-3-41EVM is intended to make it easier to evaluate or to integrate the device with the user's prototype system. The shipping EVM board has the TVL7011 installed.

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1 General Description

The EVM board provides mounting holes which are compatible to the industry standard DIP package. Either an 8-pin DIP socket or common 0.1" pin headers can be installed depending on the user's integration requirement.

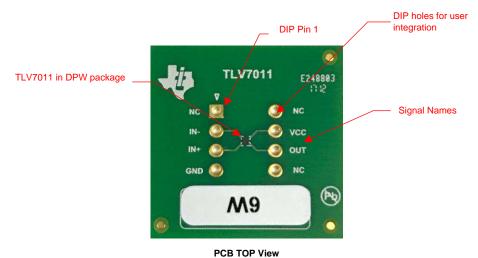


Figure 1. TLV7011-2-3-41EVM Board Top View



General Description www.ti.com

1.1 TLV7011-2-3-41EVM Block Diagram

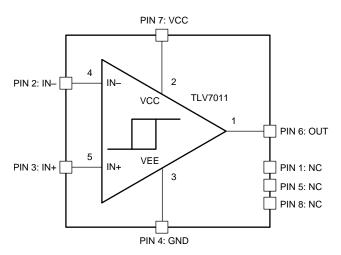


Figure 2. TLV7011-2-3-41EVM Pin Assignment

TLV7011 DEVICE **TLV7011-2-3-41EVM DIP HOLES PIN NUMBER** SIGNAL NAME **PIN NUMBER** SIGNAL NAME OUT 6 OUT 2 VCC 7 VCC VEE VEE 3 4 4 IN-2 IN-5 IN+ 3 IN+ NC 1, 5, 8

Table 1. TLV7011 and EVM Board Signals

1.2 User Evaluation or System Prototype

TLV7011-2-3-41EVM does not have any bypass capacitors installed. Users should install a $0.01-\mu F$ ceramic capacitor across VCC (DIP pin 7) and GND (DIP 4) with wires kept as short as possible to the 2 power pins when integrating with their system.

Depending on the user's setup, a standard 8 pin DIP socket or 0.1" pin headers can be installed. The user may also solder wires directly to the DIP holes.

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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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FCC Interference Statement for Class B EVM devices

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- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

3.2 Canada

3.2.1 For EVMs issued with an Industry Canada Certificate of Conformance to RSS-210 or RSS-247

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This device complies with Industry Canada license-exempt RSSs. Operation is subject to the following two conditions:

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Concernant les EVMs avec appareils radio:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. This radio transmitter has been approved by Industry Canada to operate with the antenna types listed in the user guide with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Concernant les EVMs avec antennes détachables

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- Use EVMs only after User obtains the license of Test Radio Station as provided in Radio Law of Japan with respect to EVMs, or
- 3. Use of EVMs only after User obtains the Technical Regulations Conformity Certification as provided in Radio Law of Japan with respect to EVMs. Also, do not transfer EVMs, unless User gives the same notice above to the transferee. Please note that if User does not follow the instructions above, User will be subject to penalties of Radio Law of Japan.

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