DGQ0010D vs DGQ0010H
Footprint and compatibility

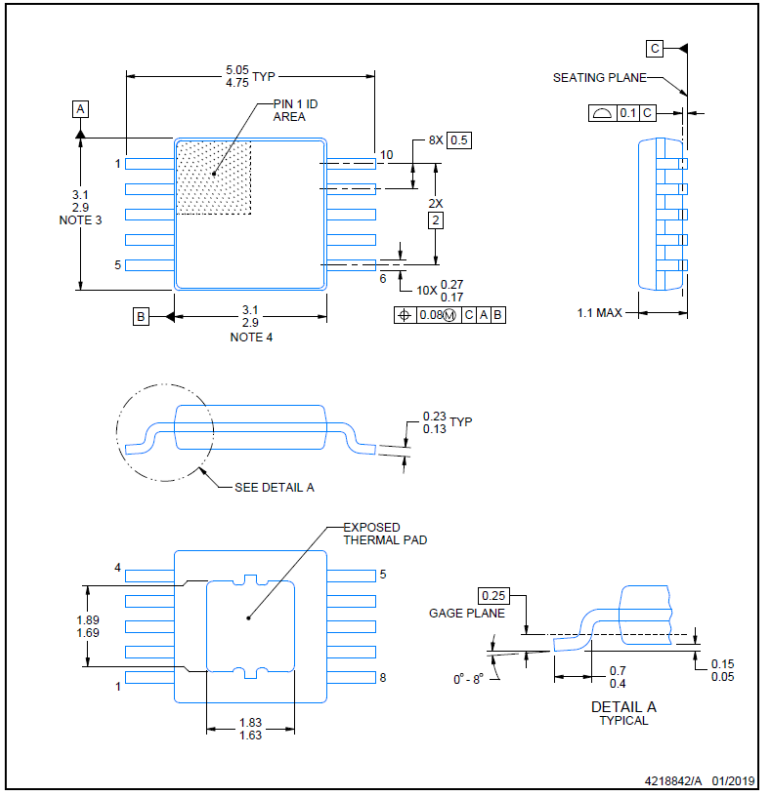
TI Confidential – NDA Restrictions

DGQ0010D

PACKAGE OUTLINE

DGQ0010D — **PowerPAD™ - 1.1 mm max height**

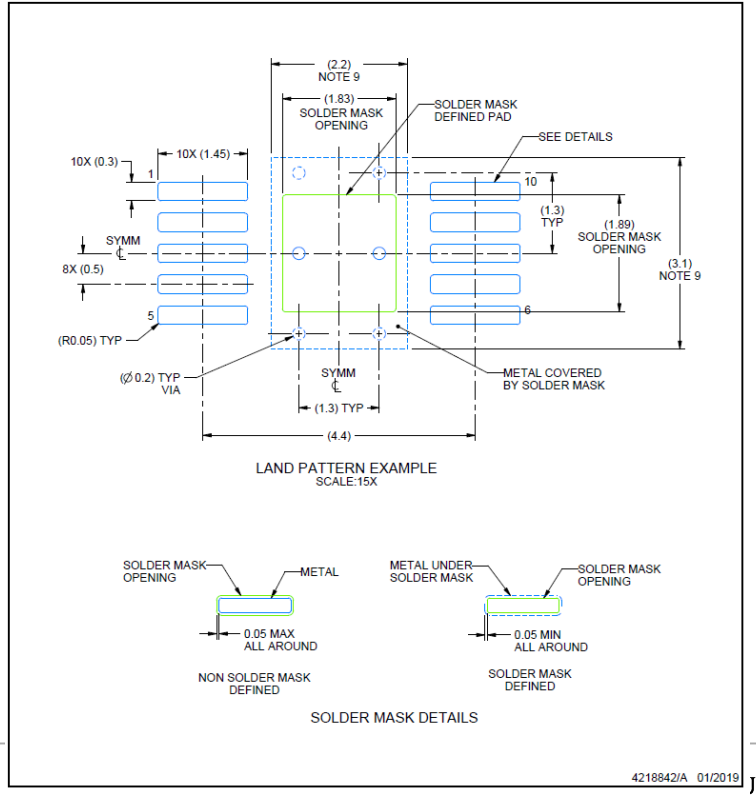
PLASTIC SMALL OUTLINE



EXAMPLE BOARD LAYOUT

DGQ0010D — **PowerPAD™ - 1.1 mm max height**

PLASTIC SMALL OUTLINE



T

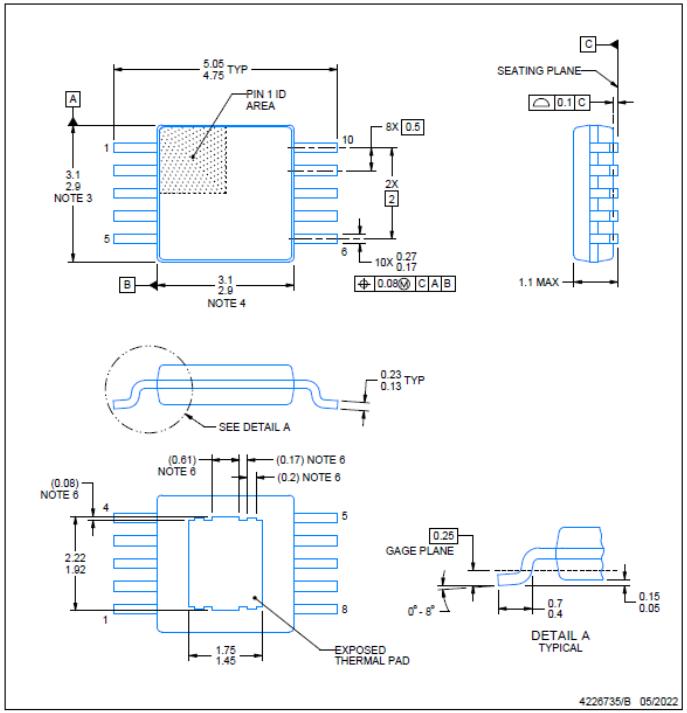
JMENTS

DGQ0010H

PACKAGE OUTLINE

DGQ0010H — **PowerPAD™ - 1.1 mm max height**

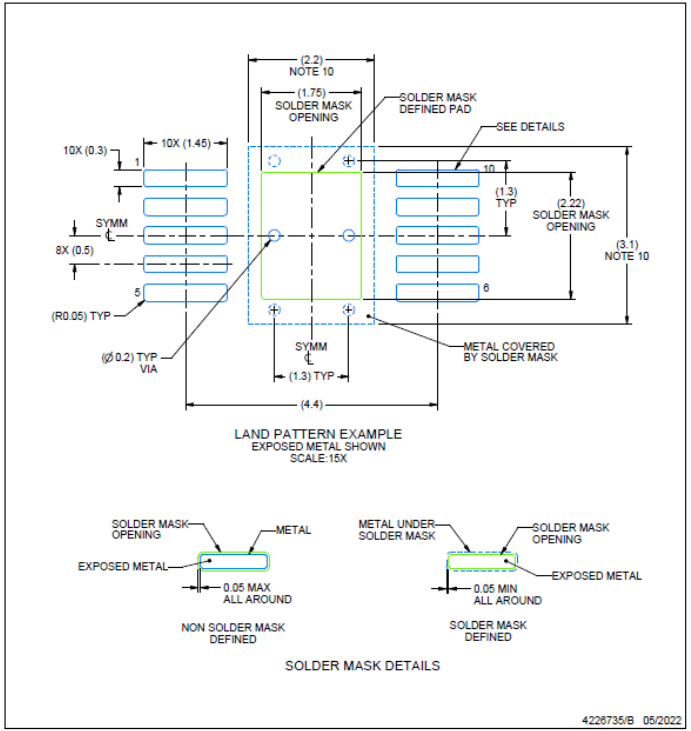
PLASTIC SMALL OUTLINE



EXAMPLE BOARD LAYOUT

DGQ0010H — **PowerPAD™ - 1.1 mm max height**

PLASTIC SMALL OUTLINE



Over-hang and Under-hang Analysis

PKG Designator	Thermal Pad Width	Thermal Pad length	PCB Pad Dimension	DGQ0010H Thermal Pad Width Min	DGQ0010H Thermal Pad Width Max	DGQ0010H Thermal Pad Length Min	DGQ0010H Thermal Pad Length Max
DGQ0010D	1.63-1.83	1.69-1.89	1.83X1.89	1.45	1.75	1.92	2.22
Putting DGQ0010H onto PCB for DGQ0010D **(Variance)**[Note 1]				0.19	0.04	-0.015	-0.165

PKG Designator	Thermal Pad Width	Thermal Pad length	PCB Pad Dimension	DGQ0010D Thermal Pad Width Min	DGQ0010D Thermal Pad Width Max	DGQ0010D Thermal Pad Length Min	DGQ0010D Thermal Pad Length Max
DGQ0010H	1.45-1.75	1.92-2.22	1.75X2.22	1.63	1.83	1.69	1.89
Putting DGQ0010D onto PCB for DGQ0010H **(Variance)**[Note 1]				0.06	-0.04	0.265	0.165

Units: mm

Note 1: Variance means the difference between package thermal pad and PCB thermal pad.
Positive number means underhang, component pad < PCB pad, limit is **0.4mm** at each side.
Negative number means overhang, component pad > PCB pad, limit is **-0.2mm** at each side.

Conclusion from analysis:

1. **Mounting DGQ0010D on PCB layout for DGQ0010H is within the under-hang/over-hang limit.**
2. **Mounting DGQ0010H on PCB layout for DGQ0010D is within the under-hang/over-hang limit.**

TI Confidential – NDA Restrictions

Important notice and disclaimer

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES “AS IS” AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements.

These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI’s products are provided subject to TI’s Terms of Sale or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI’s provision of these resources does not expand or otherwise alter TI’s applicable warranties or warranty disclaimers for TI products.