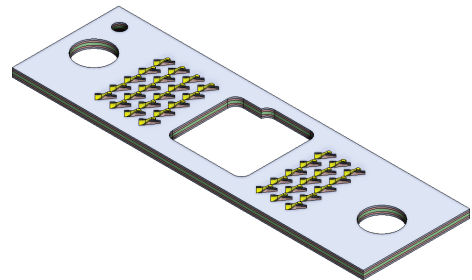


35 -Position LGA/LGA PCBeam™ Connector

Neoconix P/N: BDX0035CMMSXAU00(1.6mm thick)
BDX0035CMMSXAU01(0.43mm thick)

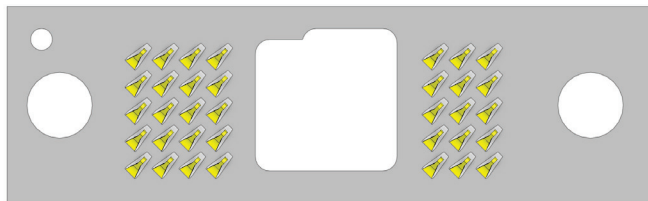
FEATURES

- High density 0.7424 mm area-array pitch
- Low profile BtB application, 1.6mm and 0.43mm mated heights
- PCBeam™ high reliability LGA/LGA spring contacts
- 15u" Hard gold-plated contact interface
- RoHS 2011/65/EU (RoHS2) compliant

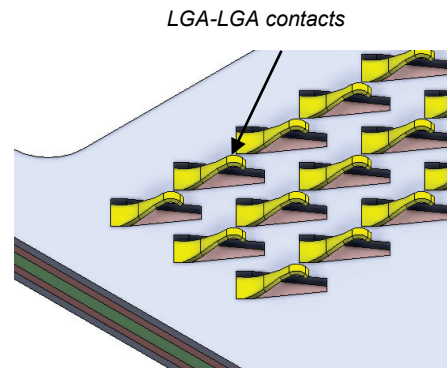


OVERVIEW

The PCBeam™ 35 Position Connector is an interconnect solution for the Texas Instruments S248 DMD. Featuring Neoconix's patented PCBeam™ interconnect technology, this product offers high performance and high reliability in an extremely compact form factor, a heat-sink opening, and features for precise alignment of the connector to the DMD and main PC Board.



Top View



LGA-LGA contacts

PCBeam™ Technology

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CROSS REFERENCE INFO:

- TI Interposer Drawing: 2517476 (1.6mm thk)
2517485 (0.43mm thk)
- TI DMD Drawing: 2517439

ORDERING INFORMATION:

- Part Numbers: BDX0035CMMSXAU00 (1.6mm thk)
BDX0035CMMSXAU01 (0.43mm thk)
- Production Packaging: Vacuum formed Low Profile Matrix Trays
- Minimum Production Order Quantity: Prototype 100 pcs
Mass Production 3000 pcs

PRODDUCT SPECIFICATIONS
MECHANICAL

ITEM	DESCRIPTION	REQUIREMENT	COMMENT
M1	Contact Pitch	0.7424mm x 0.7424mm	
M2	Contact Count	35 positions	
M3	Target Load per Contact	35 ± 10 grams	
M4	Contact Deflection	0.18mm Typical	
M5	Durability Cycles	50 mate / un-mate cycles minimum	
M6	Min Gold Thickness	0.38µm (15 µin)	

ELECTRICAL

ITEM	DESCRIPTION	REQUIREMENT	COMMENT
E1	Resistance Per Position	< 50 mOhm	
E2	Current capacity	0.5A per contact minimum	DC current
E3	Insulation Resistance	100 MOhm	
E4	Dielectric Withstanding Voltage	100 V	
E5	Operating Frequency	< 1 GHz	

ENVIRONMENTAL

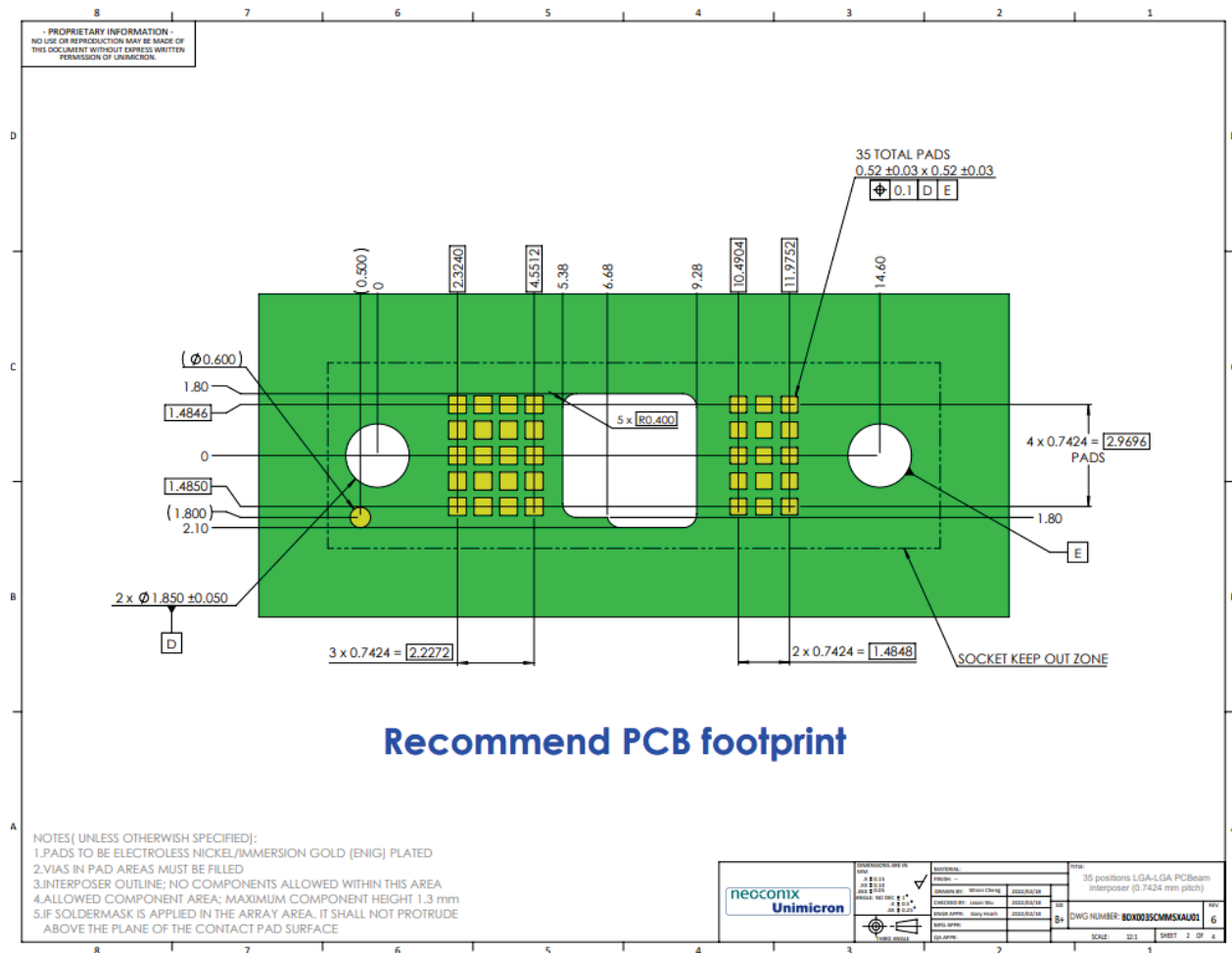
ITEM	DESCRIPTION	REQUIREMENT	COMMENT
N1	End Product Environment	Consumer Appliances	
N2	Operating Temperature	-40C to 85C	
N3	Storage Temperature	-40C to 85C	

OTHER ITEMS

ITEM	DESCRIPTION	REQUIREMENT	COMMENT
1	ROHS Compliant per 2002/92/EC	Required	

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RECOMMENDED PCB LAYOUT



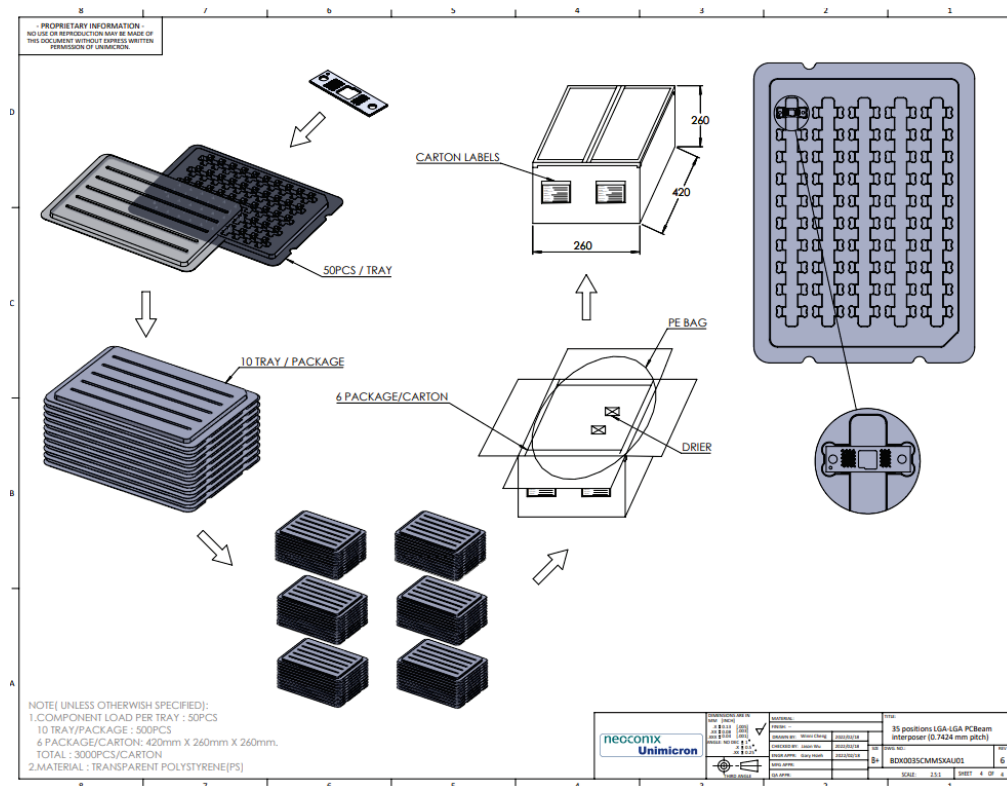
Note: This example is for reference only. Please refer to the product drawing.

ASSEMBLY & HANDLING GUIDELINES

- The use of latex gloves is recommended when handling interposers. As with any normal force connector, avoid touching contact tips and handle the product only by its edges.
- When clamping the module, PCB, or FPC onto the connector, please ensure that the force is applied uniformly. Force should be applied vertically through the z-axis and not in an angled direction.
- Cleaning is typically not needed if the product is kept in original packaging. When necessary, cleaning can be employed with the use of compressed air. Direct the flow of air in the direction that the contact elements are pointing. Cleaning can also be performed with an ultrasonic bath of isopropyl alcohol (IPA). A 5 minute soak can be followed by a 10 minute bake at 65°C.
- When not in use, please keep product stored in original packaging.

PACKAGING INFO

Production parts are provided in low profile vacuum formed trays. Each tray holds 50 pcs at 60 trays per carton, Total= 3000 pcs/Carton



**ORDERING INFO**

To obtain a quotation, please contact the Neoconix sales office at sales@neoconix.com or 408-530-9393. Please include the part number(s) of interest.

Custom interposers and hardware are also available from Neoconix.

Corporate Headquarters:

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San Jose, CA 95117 USA

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Email: sales@neoconix.com
UR: <http://www.neoconix.com>

China Contact: David Chen
Phone: +1 (408) 768-4135
Email: sales@neoconix.com

REVISION HISTORY

Rev A	02/21/2022	Production Release
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