

Board to Board Connectors



Features:

- Low profile connector system for 1.00mm pitch cable to board or board to board applications - only .100/(2.54mm) tall on female (socket) side.
- Robust design features screw-machined terminals and multi-finger contacts rated at 3 amps.
- Fits within existing board layouts.
- Over-molded lead frame seals surface mount pins to prevent solder wicking.
- SMT and thru-hole designs available.
- Passed 20-Day MFG test.

Specifications:

Terminals:

Brass - Copper Alloy (C36000) ASTM-B-16

Contacts:

Beryllium Copper (C17200) ASTM-B-194

Lead Frame:

Beryllium Copper (CA 172)

Plating:

G - Gold over Nickel
 GH - Heavy Gold over Nickel
 M - Matte Tin over Nickel

Gold per ASTM-B-488
 Matte Tin per ASTM545-97
 Nickel per QQ-N-290

Mezza-pede® Low Profile SMT Connectors

.039/(1.00mm) Pitch • For Cable to Board or Board to Board Applications

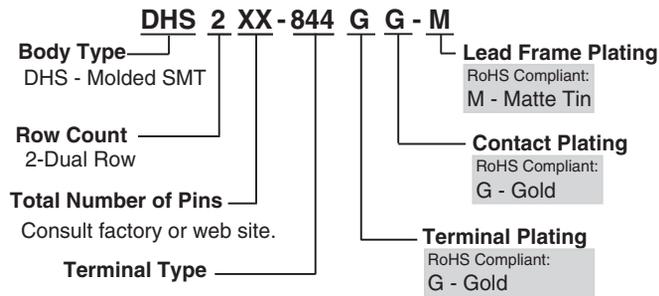
Table of Models

Gender	Description	Material	Index	Dimensions
Female	Description: Molded SMT Socket (DHS)	High Temp. Liquid Crystal Polymer (LCP)	-40°C to 260°C (-40°F to 500°F)	.080 (2.03)
Male	Description: Molded SMT Header (DHAM)	High Temp. Liquid Crystal Polymer (LCP)	-40°C to 260°C (-40°F to 500°F)	.050 (1.27)
	Description: Flexible Thru-hole Header (DHA)	Polyimide Film	-269°C to 400°C (-452°F to 752°F)	.005 (.130)

How To Order

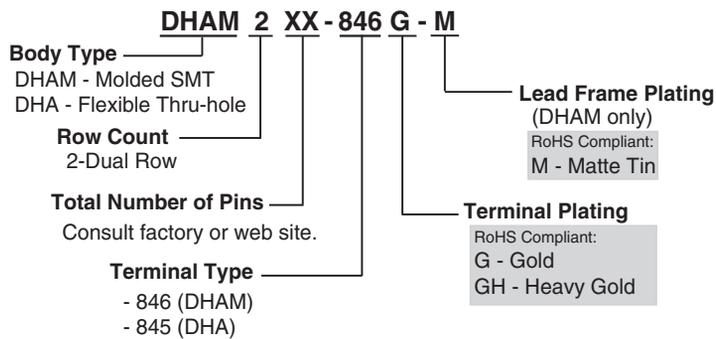


Female



Packaging: DHS is supplied in tape and reel packaging.

Male



Packaging: DHAM is supplied with pick-and-place cover in tape and reel packaging. DHA is supplied in standard trays. (Trays are not suitable for automated pick-and-place processes).

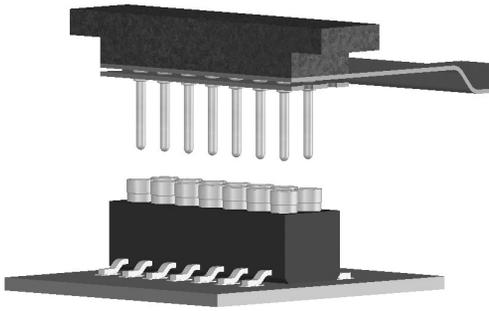


5 Energy Way, West Warwick, RI 02893 USA
 Tel: 800.424.9850 | 401.823.5200
 Fax: 401.823.8723
 info@advanced.com | www.advanced.com
 Catalog 16A

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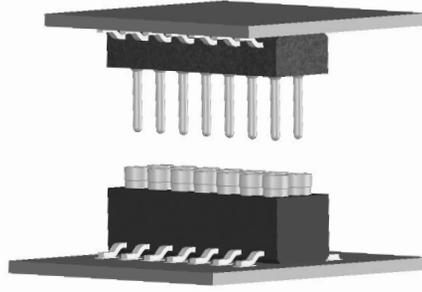
.039/(1.00mm) Pitch • For Cable to Board or Board to Board Applications

How It Works



Thru-hole Flex Cable Application

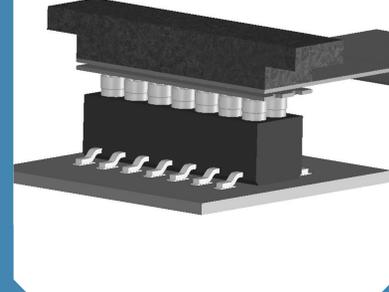
1. The male terminals are supplied in a polyimide film carrier to facilitate handling.
2. A stiffener with a recommended thickness of .020 inches should be used between the terminal pins and the flex circuit. (Stiffener not supplied)
3. The recommended maximum hole in the stiffener is .018 diameter.
4. The flex circuit should have a minimum diameter plated through hole of .016. Standard practices for flex circuit thru-hole and annular rings should apply.
5. An FR-4 cover can be used to protect the top solder joints if required. (not supplied)



SMT Board to Board Application

1. In an SMT application, the SMT socket (DHS) or either header (DHA, DHAM) can be used on PC boards, rigid flex or flex circuits.
2. SMT pad size should meet IPC standards for surface mount components.
3. See lead dimension and foot size on applicable CAD drawing for reference.
4. Tape and reel packaging is provided for SMT assembly.

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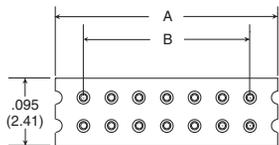


Typical Applications

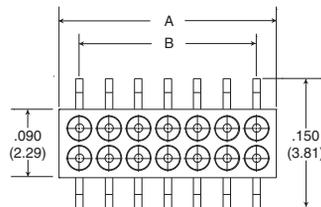
- Tunable Laser power connector (flex cable to board)
- Tunable Laser connector (board to board)
- Signal connector (flex cable to board)
- Low profile board to board connector

Dimensional Information

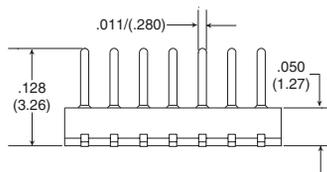
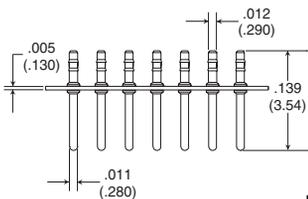
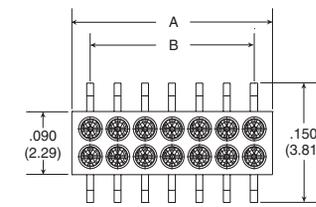
DHA



DHAM



DHS



Part Number	Number of Pins	Row Count Configuration	A	B
DHS/DHAM	8	2 x 4	.171/(4.34)	.118/(3.00)
DHS/DHAM	14	2 x 7	.290/(7.36)	.236/(6.00)
DHS/DHAM	36	2 x 18	.722/(18.34)	.669/(17.00)
DHA	8	2 x 4	.197/(5.00)	.118/(3.00)
DHA	14	2 x 7	.315/(8.00)	.236/(6.00)
DHA	36	2 x 18	.748/(19.00)	.669/(17.00)

Note: Pin to pin spacing is .039/(1.00). Lead frame width is .010/(0.25).

Available Online:

- Additional test data and reports
- CAD Drawings