Mezza-pede®
Low Profile 1.0mm Pitch SMT Connectors

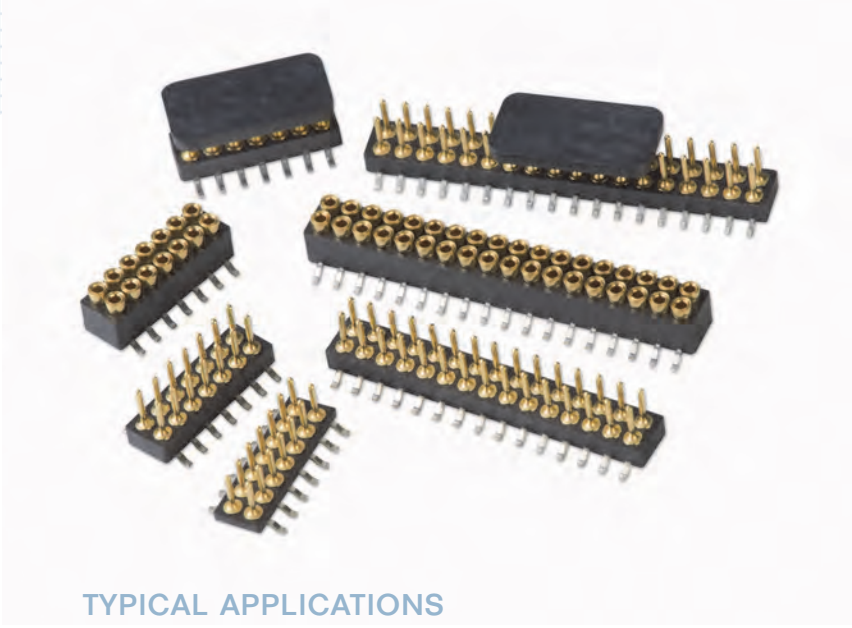
RoHS Compliant Pb Free

www.advanced.com

Mezza-pede® SMT Connectors from Advanced Interconnections are designed for board-to-board or cable-to-board applications where long-term reliability in a high density package is required. The newest addition, header model DHAL, features an ultrathin molded insulator which reduces z-axis stack height down to 3.4mm.

Engineered with an enclosed screw-machined socket, 6-finger contact, and heavy gold plating, precision molded Mezza-pede® SMT Connectors meet the stringent requirements of telecom and other severe environment applications.

Mezza-pede® SMT Connectors can be easily customized to application-specific requirements.

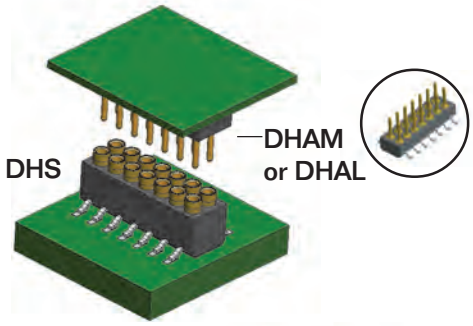


TYPICAL APPLICATIONS

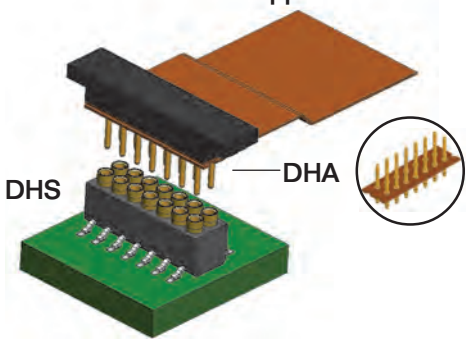
- Industry standard tunable laser power connector
- Signal connector
- Low profile mezzanine board connector

How It Works

SMT Board to Board Application



Thru-hole Flexible Cable Application*



*Thru-hole version is solderable to flex cable for cable-to-board applications (customer supplied stiffener recommended).

Features

- Designed for high density (1.0mm pitch) & low profile board-to-board or cable-to-board applications
- Robust screw-machined terminals for long-term reliability
- Board to board stack height options from 3.1 to 4mm – suitable for mezzanine applications where z-axis space is limited
- Proprietary SMT lead frame and pin design prevents solder wicking, providing the highest quality solder joint
- Precision molded from high temperature LCP, the RoHS compliant connectors are compatible with lead-free solder profiles
- Designed with enclosed screw-machined sockets, superior 6-finger contacts, and heavy gold plating to pass the mixed flowing gas (MFG) test and other requirements in telecom, severe environment, and long-life applications
- SMT or thru-hole terminations
- Dual row configurations from 8 to 36 total positions, customizable up to 50 positions, along with options for shrouds and polarizing features

ADVANCED INTERCONNECTIONS

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Performance

Mating Force
2.5 lbs. (14 pos. assembly)

Extraction Force
2.2 lbs. (14 pos. assembly)

Durability
100 cycles

Contact Resistance
10 milliohm maximum change after testing

Current Carrying Capacity
1.1 A @ 80°C ambient

Mixed Flowing Gas (MFG)
Passed, 20-Day
(with GH plating)

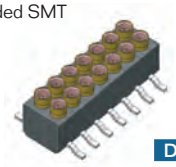
Operating Temperature Range
-55°C to +125°C

For additional performance data, please visit our website at www.advanced.com.

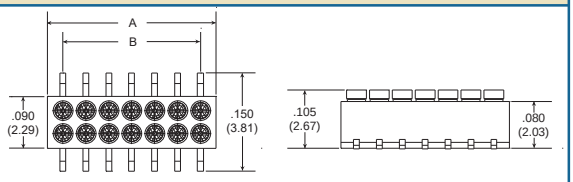
Table of Models

FEMALE CONNECTORS (SOCKETS)

Molded SMT



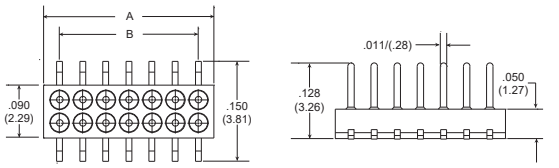
DHS



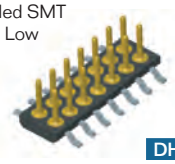
MALE CONNECTORS (HEADERS)

Molded SMT

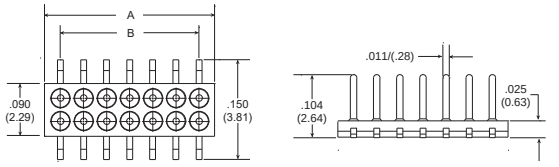
DHAM



Molded SMT
Ultra Low

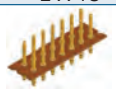


DHAL



Model	Pin Count	Rows	A	B
DHS/DHAM	8 pos.	2 X 4	.171/(4.36)	.118/(3.00)
DHS/DHAM/DHAL	14 pos.	2 X 7	.290/(7.36)	.236/(6.00)
DHS/DHAM	20 pos.	2 X 10	.408/(10.36)	.354/(9.00)
DHS/DHAM	30 pos.	2 X 15	.605/(15.37)	.551/(14.00)
DHS/DHAM	36 pos.	2 X 18	.722/(18.34)	.669/(17.00)

inch/(mm)



Consult website for DHA dimensions.

Specifications

Mated Height
0.157/(4.0mm) approx. (DHS with DHAM)
0.132/(3.4mm) approx. (DHS with DHAL)
0.122/(3.1mm) approx. (DHS with DHA)

Insulators
DHS, DHAM, DHAL:
Liquid Crystal Polymer (LCP), U.L. Rated 94V-0
DHA: Polyimide Film, U.L. Rated 94V-0

Terminals
Brass - Copper Alloy (C36000) ASTM B16

Contacts
Beryllium Copper (C17200) ASTM B194

SMT Terminal Leads
Beryllium Copper (C17200) ASTM B194

Plating
G - Gold over Nickel
GH - Heavy Gold over Nickel
M - Matte Tin over Nickel *(Leads only)*

Gold per ASTM B488-01
Matte Tin per ASTM B545-13
Nickel per ASTM B689-97

Packaging
DHS is supplied in tape and reel packaging.
(Optional pick-and-place cover available.)
DHAM/DHAL supplied with pick-and-place cover in tape and reel packaging.
DHA is supplied in standard trays (not suitable for pick-and-place processes).

How To Order

Female

DHS 2 XX - 844 G G - M P

Body Type
DHS - Molded SMT

Row Count
2 - Dual Row

Total Number of Pins
08, 14, 20, 30, 36
Consult factory for additional sizes

Terminal Type

Terminal Plating
G - Gold

Contact Plating
G - Gold

Leads Plating
M - Matte Tin

Option(s)
P - Pick & Place Cover
Leave blank for no cover

Male

DHAM 2 XX - 846 G - M

Body Type
DHAM - Molded SMT
DHAL - Molded SMT
DHA - Flexible Thru-hole

Row Count
2 - Dual Row

Total Number of Pins
08, 14, 20, 30, 36
Consult factory for additional sizes
DHAL currently only in 14 pos.

Terminal Type
- 846 (DHAM)
- 876 (DHAL)
- 845 (DHA)

Terminal Plating
G - Gold
GH - Heavy Gold

Leads Plating
(DHAM/DHAL only)
M - Matte Tin

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