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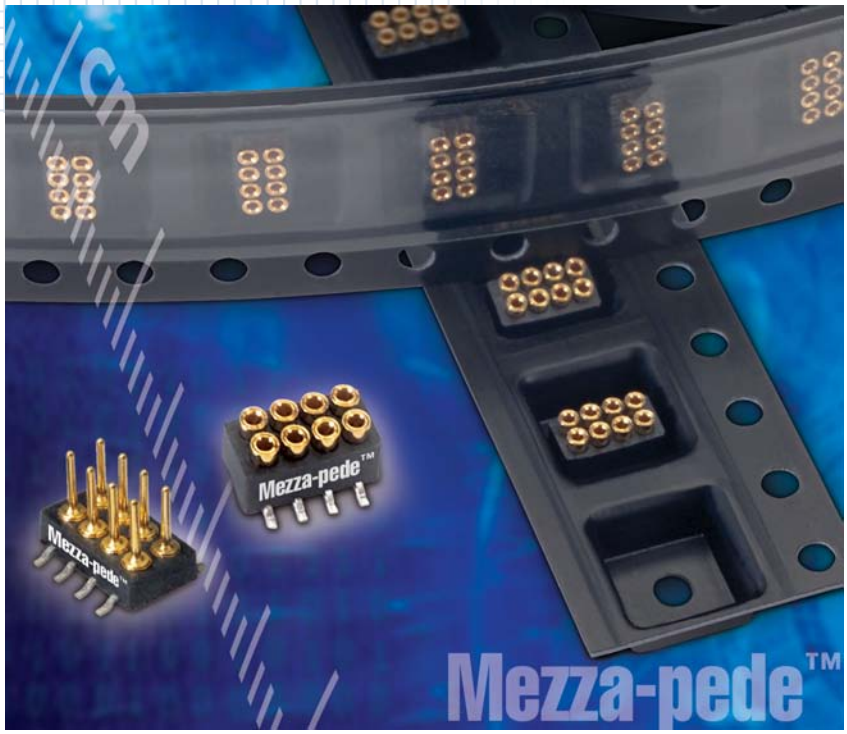
Mezza-pede™
Low Profile 1mm Pitch SMT Connectors

RoHS Compliant Pb Free

www.advanced.com

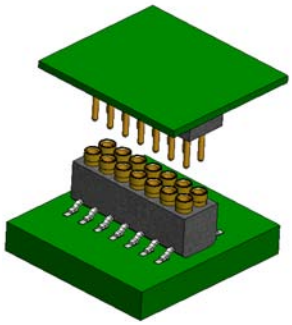
Mezza-pede™ low profile 1mm pitch SMT Connectors from Advanced are designed for board-to-board or cable-to-board applications where long-term reliability is required.

With Advanced's enclosed screw-machined socket, 6-finger contact and heavy gold plating, Mezza-pede™ Connectors pass the 20-day mixed flowing gas (MFG) test required in many telecom and other severe environment and long-life applications. Our over-molded lead frame seals the surface mount leads to prevent solder wicking, ensuring a secure solder joint. The low 4mm stack height makes it ideal for tight mezzanine packaging applications.

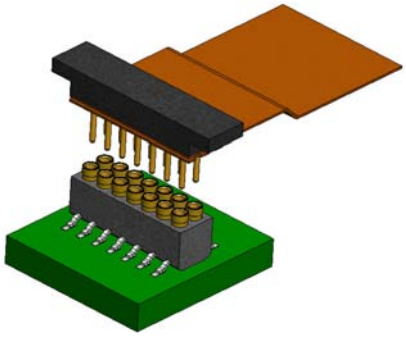


How It Works

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

- For high density (1mm pitch) & low profile board-to-board or cable-to-board applications
- Robust screw-machined terminals for long-term reliability
- Board to board stack height of only 4mm – suitable for mezzanine applications where Z-axis space is limited
- Patented 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
- Enclosed screw-machined socket, superior 6-finger contact and heavy gold plating for stringent requirements (i.e. passes MFG test) of telecom and other severe environment and long-life applications
- SMT or thru-hole terminations
- Dual row configurations include 8, 14 or 36 total positions with other pin counts available on a customized basis
- Shrouding and polarizing features available on a customized basis

TYPICAL APPLICATIONS

- Industry standard Tunable Laser power connector
- Signal connector
- Low profile mezzanine board connector

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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 @ 80ºC ambient

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

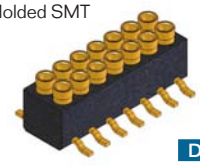
Operating Temperature Range
-55ºC to +125ºC

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

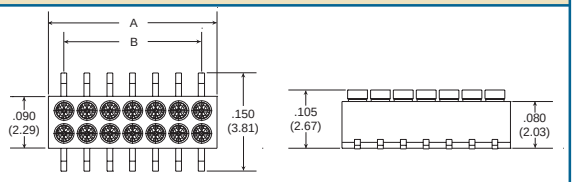
Table of Models

FEMALE CONNECTORS (SOCKETS)

Molded SMT

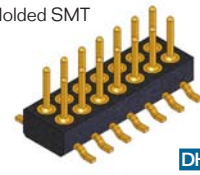


DHS

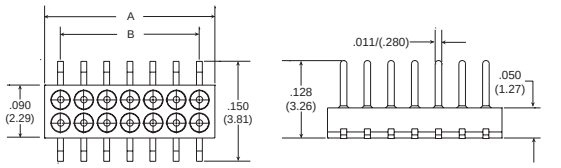


MALE CONNECTORS (HEADERS)

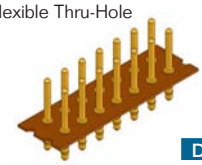
Molded SMT



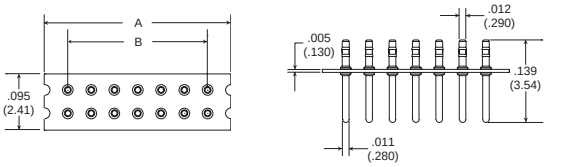
DHAM



Flexible Thru-Hole



DHA



Model	Pin Count	Rows	A	B
DHS/DHAM	8 pos.	2 X 4	.171/(4.34)	.118/(3.00)
DHS/DHAM	14 pos.	2 X 7	.290/(7.36)	.236/(6.00)
DHS/DHAM	36 pos.	2 X 18	.722/(18.34)	.669/(17.00)
DHA	8 pos.	2 X 4	.197/(5.00)	.118/(3.00)
DHA	14 pos.	2 X 7	.315/(8.00)	.236/(6.00)
DHA	36 pos.	2 X 18	.748/(19.00)	.669/(17.00)

inch/(mm)

Specifications

Mated Height
0.157/(4mm) approx. (DHS/DHAM)
0.122/(3.1mm) approx. (DHS/DHA)

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

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

Contacts
Beryllium Copper (C17200) ASTM-B-194

SMT Leads
Beryllium Copper (C17200) ASTM-B-194

Plating
G - Gold over Nickel
GH - Heavy Gold over Nickel
M - Matte Tin over Nickel *(Leads only)*
Gold per ASTM-B-488
Matte Tin per ASTM545-97
Nickel per QQ-N-290

Packaging
DHS is supplied in tape and reel packaging.
DHAM is 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

Body Type
DHS - Molded SMT

Row Count
2 - Dual Row

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

Terminal Type

Terminal Plating
RoHS Compliant:
G - Gold

Contact Plating
RoHS Compliant:
G - Gold

Leads Plating
RoHS Compliant:
M - Matte Tin

Male

DHAM 2 XX - 846 G - M

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

Row Count
2-Dual Row

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

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

Terminal Plating
RoHS Compliant:
G - Gold
GH - Heavy Gold

Leads Plating
(DHAM only)
RoHS Compliant:
M - Matte Tin

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