

Micro HDAS

High performance & versatile
Board to Board 1,27mm / .050" pitch connector



Description

Amphenol Socapex introduce the micro HDAS, its new micro board to board and board to wire connector. Micro HDAS allows you to save space on your board while maintaining a high level of performances. Offering you PC Tail & crimp contact terminations, Micro HDAS provides a modularity to fit all your needs. Micro HDAS is a Nicomatic EMM equivalent connector.

Benefits

- Smaller & lighter rugged board connector
- Intermateable with Nicomatic's EMM
- Protected contacts by design
- 7,4mm distance between boards

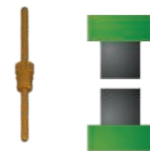
Features

- 10 arrangements, from 4 to 60 contacts
- PC Tail & Crimp contacts (pins only)
- Meet & Exceed MIL-DTL-55302G & 83513G
- Full range of fittings to answers your needs

Configurations



Board to cable
(Crimp AWG 24 to 30)



Mezzanine



Mother board to
Daughter board

Exploded views

CONTACTS



Clip technology (socket) & machined
pins contacts with gold plate

INSULATORS



Molded LCP
Polarized

FITTINGS



Stainless steel

Markets



Commercial Aerospace



Military Aerospace



Ground Vehicle



C4ISR



Missiles

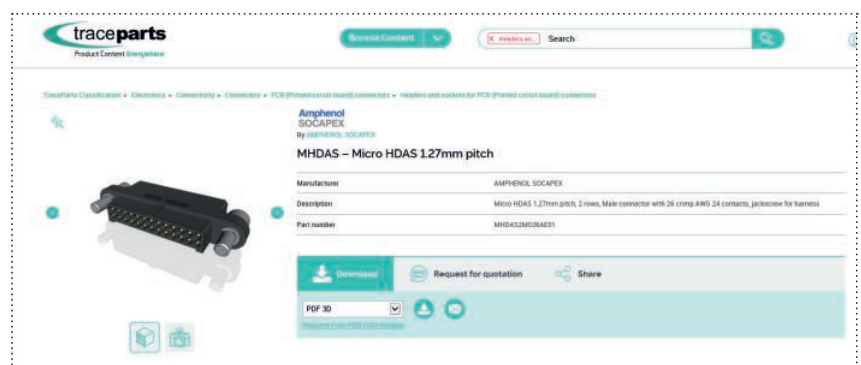
Technical Specifications

MECHANICAL CHARACTERISTICS	Micro HDAS	MIL-DTL-55302
Backoff (mm)	1,27	N/A
Contact engagement & separation forces		
Mating force per contact (N)	$0,39 < F < 0,68$	4.5.3
Unmating force per contact (N)	$0,16 < F < 0,21$	
Mating and unmating forces - Initial - Tested on a 30 ways connector		
Mating forces (N) - average per contact	0,44	4.5.4
Unmating forces (N) - average per contact	0,31	
Durability cycles	500	4.5.9
Sinusoidal vibrations	Up to 45g	4.5.10
Shocks (sawtooth/6ms)	Up to 160g	4.5.10
Fixing torque between connector and PCB (N.m)	0,3	N/A
Fixing torque between connectors (N.m)	0,2	N/A
ENVIRONMENTAL CHARACTERISTICS		
Temperature cycling (°C) - EIA-364-32D	-65/+260	4.5.13
Salt spray (hours)	96	4.5.11
Humidity	10 cycles of 24 hours	4.5.15
ELECTRICAL CHARACTERISTICS		
	Contact configuration	@25°C @85°C
Current rating per contact (A) - 30 ways connector	YD/YD	3,4A
	YD/YC	3,9A
	YD/CRIMP	Depending on cable, up to 5A
Insulation resistance (at 500Vdc) (GΩ)	> 5	4.5.8
Contact resistance (mΩ)	< 8	4.5.5
Dielectric withstanding voltage (Vrms) at sea level	750	4.5.7.1
Dielectric withstanding voltage (Vrms) 70 000 feet (between contacts)	480	
Dielectric withstanding voltage (Vrms) 70 000 feet (connectors soldered)	350	

Online configurator & 3D model download

You can define references according your needs and download directly 3D models in several formats on Micro HDAS product page in our website.

www.amphenol-socapex.com or by clicking here.



How to order

1.	2.	3.	4.	5.	6.
Series	Number of rows	Connector type	Number of contacts	Contact type	Fitting
MHDAS	2	M	016	YC	E61

1. Series name

MHDAS Micro HDAS 1,27 mm pitch

2. Number of rows

2 2 rows connector

3. Connector type

M Male connector

F Female connector

4. Number of contacts

004	010	020	030	050
008	016	026	040	060

5. Contact type

A Crimp AWG 24 (male only) ✓

B Crimp AWG 26 (male only) ✓

G Crimp AWG 28-30 (male only) ✓

YC Right angle PC tail standard ✓

YD Straight PC tail standard ✓



6. Fitting

E01 Jackscrew for harness

E10 Male straight guiding

E11 Male 90° guiding

E50 Female straight jackscrew

E51 Female 90° jackscrew

E60 Female straight guiding

E61 Female 90° guiding

Fittings compatibility

Contact	Fitting		Compatible with
A - B - G	E01	Jackscrew for harness	E50 or E51
YC	E11	Male 90° guiding	E60 or E61
	E51	Female 90° jackscrew	E01
	E61	Female 90° guiding	E10 or E11
YD	E10	Male straight guiding	E60 or E61
	E50	Female straight jackscrew	E01
	E60	Female straight guiding	E10 or E11

Note: fittings are always delivered with connector.

Connector marking

Micro HDAS connectors are laser marked.
Exemple of marking :

Series name	Contact type	Date code
MHDAS	YC	YYWW

Series name : MHDAS = Micro HDAS

Contact type : as specified in our how to order

YYWW : year + week batch



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Documentation

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