Amphenol SOCAPEX

gh-density 1.905 mm straggered

HDAS Series

High performance & versatile Board to Board 1,905mm / .075" pitch connector

Description

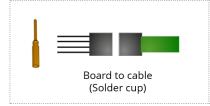
Amphenol Socapex HDAS is a versatile monolitic connector from 11 to 253 contacts. Designed to reach MIL-DTL-55302 performances, HDAS is the right connector when reliability must be considered. Up to 20A with an hybrid version to mix signal, power or RF, HDAS is available with a wide range of fittings, contacts & options. Already used in every critical application.

Benefits

Features

- 12 arrangements, from 11 to 253 contacts
- Hybrid version to mix signal, power & coax
- PC Tail, press fit, solder cup & surface mount contacts
- Meet & Exceed MIL-DTL-55302

Configurations



Dedicated to harsh environment

1,27µ Au on socket, 1µ Au on pins 16mm distance between boards (YD/YD)

Electrical security 1,2mm

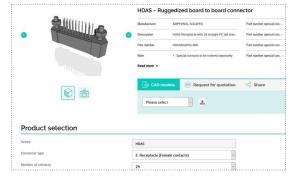




Online configurator & 3D model download

You can define references according your needs and download directly 3D models in several formats on HDAS product page in our website www.amphenol-socapex.com or scan QR code :





Markets













HDAS series

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Technical Specifications

Mechanical characteristics	HDAS	MIL-DTL-55302 sections		
Backoff' (mm)	1.2 [.0472] _{MAX}	N/A		
Mating force per contact (N)	0.6 < F < 0.8	§ 4.5.3		
Unmating force per contact (N)	0.3 < F < 0.5	§ 4.5.3		
Durability cycles	500	§ 4.5.9		
Sinusoidal vibrations (200 to 2000 Hz) micro discontinuity 2ns	15 g	§ 4.5.10		
Random vibrations (600 to 700Hz) micro discontinuity 2ns	1.2 g² / Hz	§ 4.5.10		
Shocks 6ms ½ sinus 2ns	100 g	§ 4.5.10		
Environmental characteristics				
Thermal shocks (°C)	-65 / +150	§ 4.5.13		
Salt Spray (hours)	144	§ 4.5.11		
Humidity Days Temperature (°C) Humidity rate (%)	10 25/65 90-95	§ 4.5.15		
Electrical characteristics				
Current rating per contacts (A)	4.5	§ 4.5.5		
Insulation resistance (at 500Vdc) (GΩ)	5 _{MIN}	§ 4.5.8		
Contact resistance (mΩ)	10 _{MAX}	§ 4.5.12		
Dielectric Withstanding Voltage (Vrms)	750 _{MIN}	§ 4.5.7.1		

1: When both connectors are fully mated, the backoff is the maximum distance the connectors can be unmated while functioning properly

How to order

1.	2. 3. Connector Number of contacts	3.	4.	5.		6.	7.	8.	
ries		Contact termination	Hybrids		Deviation	Fitting / locking / Keying	Plating		
DAS	E	41	YD	6A		-00	0	LF	
			6. Deviatio	on					
HDAS	-00		Standard, by defa	ault					
110/10		-50		Marking withstanding to VIGON					
otortuno	-01		Dip tinning (SnPb or SnAg) (plug only)						
2. Connector type			-02		PC tail organizer (YC* plug only)				
E Receptacle (Female contacts) F Plug (Male contacts)			-10	Stainless steel fitting (mandatory for latch)					
			-60	-10 & -50 deviation combined					
			-20		Stainless steel fitting & rear potting				
	CIS					all configuration, please c	onsult us.		
011 020			7. Fitting /	Loc	king / Keying ¹				
029				0	0 Standard				
050				4	4 Intermediate				
			D	V turn locking, locking on male fitting side Straight according to contact termination for PCB					
152			Female fitting recentacle		Locking by screw locking on female fitting side				
102				Η					
	-	receptacie	Ι	Locking by screw, locking on female fitting side					
253				F	F Locking by screw, locking on female fitting side Straight according to contact termination, for PCB				
. Contact termination				L	L Latch				
				0	0 Standard				
÷			2	2 No keying on male guide (plug only)					
Straight PC	tail standard		Male	Е	E % turn locking, locking on male fitting side Straight fitting for cable or flexible circuit				
			fitting plug	G	G Locking by screw, locking on female fitting side				
Z Solder cup, for test application	tor test application only (p	lug only)		-	Straight or right angle fitting according to contact termination, for PCB				
Hybrids			J	J Locking by screw, locking on female fitting side Straight or right angle fitting according to contact termination, for chassis, motherboard, jumper or c					
	al cavities (applicable only v	vith 41 signal contacts)		L	Latch				
			0 Disting						
			o. Plating						
s are alwavs	delivered with non asser	nbled fittings	Blank						
: RoHS compliant				Pb dip tinning on p					
	Receptacle Plug (Male of or of conta 011 020 029 041 050 077 119 152 102 202 253 ct terminati Right angle Straight PC Straight PC Straight PC Straight PC Straight PC Straight PC Straight PC solder cup, S With 6 special f no special s are always	ries Connector type DAS E HDAS E HDAS recortype Receptacle (Female contacts) Plug (Male contacts) Plug (Male contacts) Plug (Male contacts) er of contacts 011 020 029 041 050 077 119 152 102 202 253 ct termination Right angle PC tail short (plug only) Right angle PC tail standard (plug only) Right angle PC tail standard (plug only) Right angle PC tail standard (plug only) Solder cup, for test application only (p Is With 6 special cavities (applicable only v If no special cavities s are always delivered with non asser	Image: rise Connector type Number of contacts DAS E 41 HDAS Image: rise rise rise rise rise rise rise rise	Connector type Number of contacts Contact termination DAS E 41 YD HDAS -00 -00 -ctor type -01 -00 Receptacle (Female contacts) -01 -02 Plug (Male contacts) -02 -01 Plug (Male contacts) -00 -02 or of contacts -00 -02 011 -02 -00 020 -20 -01 021 -20 -01 022 -20 -20 011 -02 -20 021 -20 -20 021 -20 -20 021 -20 -20 021 -20 -20 021 -21 -22 022 -22 -20 023 -41 -20 041 -50 -20 050 -50 -20 102 -22 -20 223 -22 -21 102 -22 -22	ries Connector type Number of contacts Contact termination DAS E 41 YD HDAS E 41 YD HDAS -00 -50 -01 Cort type -01 -02 -01 Receptacle (Female contacts) -01 -02 -01 Plug (Male contacts) -01 -02 -01 020 -01 -02 -01 -02 er of contacts -02 -01 -02 -01 020 -01 -02 -01 -02 -01 021 -02 -01 -02 -02 -01 -02 -02 -02 -01 -02 -02 -01 -02 -01 -02 -01 -02 -01 -02 -01 -02 -01 -02 -01 -02 -01 -02 -01 -02 -01 -02 -01 -01 -02 -01 -01 -01 -01 -01 -01 -01 -01 -01 -01 -01 -01	rises Connector type Number of contacts Contact termination Hybrids DAS E 41 YD 6A HDAS -00 Standard, by def -00 Standard, by def HDAS -00 Standard, by def -00 Standard, by def HDAS -00 Standard, by def -00 Standard, by def HDAS -00 Standard, by def -00 Standard, by def Ctor type -00 Standard, by def -00 Standard, by def Receptacle (Female contacts) -00 Standard, by def -00 Standard, by def 01 Dip tinning (SnPL -00 Standard -00 Standard 101 Contacts -00 Standard -00 Standard 020 -00 Standard -00 Standard -00 Standard 102 -00 Standard -00 Standard -00 Standard 102 -00 Standard -00 Standard -00 Standard 102 -00 Standard -0	ries Connector type Number of contacts Contact termination Hybrids Deviation DAS E 41 YD 6A -00 HDAS -00 Standard, by default -00 HDAS -00 Standard, by default -00 ector type -01 Dip timing (SrPb or SrAg) (bug only) -02 Receptacle (Female contacts) -01 Standard, by default -00 PUg (Male contacts) -01 Standard, by default -00 ar of contacts -10 Standard, by default -00 320 Stanless steel fitting (SrPb or SrAg) (bug only) -00 Stanless steel fitting (andatory for latch) 40 Stanless steel fitting (a car potting * Ator available for all configuration, please or * Not available for all configuration, please or * Not available for all configuration, please or * Straight according to contact termination, for termination 102 Standard Intermediate 0 Standard 102 Locking by screw, locking on male fitting size straight angle PC tail short (plug only) Straight according to contact termination, for tach 11 Locking by screw, locking on male fitting size straight angle PC tail short (plug only) Straight or r	Connector type Number of contacts Contact termination Hybrids Deviation Fitting / locking / Keying / DAS E 41 YD 6A -00 0 HDAS E 41 YD 6A -00 0 HDAS -00 Staindard, by default -00 0 0 HDAS -00 Staindard, by default -00 0 0 0 HDAS -00 Stainders default -00 0 <td< td=""></td<>	

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Bright pure Sn on receptacle 🧹

Matte pure Sn on receptacle 🧹

SnAg dip tinning on plug 🧹

LF

LFM

Designed by Amphenol Socapex DOC-000067-ANG - October 2020

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