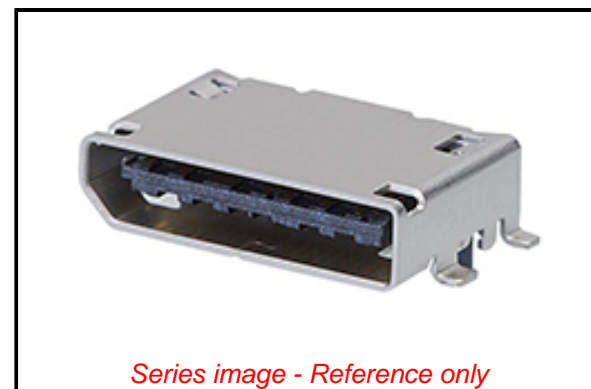


PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [1719820142](#)
Status: **Active**
Overview: [Nano-Pitch I/O Interconnect System](#)
Description: Nano-Pitch I/O Receptacle, Right-Angle, Surface Mount, without Cap, 42 Circuits

Documents:

3D Model	Application Specification AS-173162-0002-001 (PDF)
3D Model (PDF)	Packaging Specification PK-171982-9000 (PDF)
Drawing (PDF)	Packaging Specification PK-173307-0001-001 (PDF)
Product Specification PS-173162-0001-001 (PDF)	Symbol Footprint Data SYM-171982-0142 (PDF)
Application Specification AS-173162-0001-001 (PDF)	RoHS Certificate of Compliance (PDF)



Series image - Reference only

Agency Certification

UL E29179

General

Product Family	I/O Connectors
Series	171982
Application	Wire-to-Board
Component Type	Receptacle
Overview	Nano-Pitch I/O Interconnect System
Product Name	Nano-Pitch I/O
Type	N/A
UPC	889056188364

Physical

Circuits (Loaded)	42
Circuits (maximum)	42
Color - Resin	Black
Durability (mating cycles max)	50
Gender	Receptacle
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	1.070/g
Number of Rows	2
Orientation	Right Angle
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.57mm
Packaging Type	Embossed Tape on Reel
Panel Mount	No
Pitch - Mating Interface	0.50mm
Pitch - Termination Interface	0.50mm
Plating min - Mating	0.762µm
Plating min - Termination	2.540µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	1
Temperature Range - Operating	-40° to +80°C
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No

Electrical

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Contained Per -
D(2020)4578-DC (25
June 2020)
perfluorooctanoic acid
heptacosafuorotetradecanoic
acid
dodecamethylcyclohexasiloxane
decamethylcyclopentasiloxane
octamethylcyclotetrasiloxane
disodium 3,3'-[[1,1'-
biphenyl]-4,4'-
diylbis(azo)
diisopentylphthalate
methoxyacetic acid
1,2-diethoxyethane
dibutyltin dichloride
2-methylimidazole
4,4'-methylenedi-o-
toluidine
1-vinylimidazole
1,3-propanesultone
chromium trioxide
disodium 4-
amino-3-[[4'-[(2,4-
diaminophenyl)azo]
henicosafuoroundecanoic
acid
ammoniumpentadecafluorooctanoate
sodium
peroxometaborate
tricosafuorododecanoic
acid
diethyl sulphate
propylene oxide
dimethyl sulphate
N-methylacetamide
p-(1,1-
dimethylpropyl)phenol

China RoHS

Current - Maximum per Contact 0.5A
Grounding to Panel None
Shielded No
Voltage - Maximum 30V AC (RMS)/DC

Solder Process Data

Lead-free Process Capability N/A

Material Info

Reference - Drawing Numbers

Application Specification AS-173162-0001-001, AS-173162-0002-001
Electrical Model Document EE-171982-0010
Packaging Specification PK-171982-9000, PK-173307-0001-001
Product Specification PS-173162-0001-001
S-Parameter Model SP-171982-0010
Sales Drawing SD-171982-1000-001
Symbol/Footprint Data SYM-171982-0142

dihexyl phthalate (DnHP)
phenanthrene
dinoseb (ISO)
butyl 4-hydroxybenzoate
o-toluidine
4-methyl-m-phenylenediamine
ethylene thiourea
4-o-tolylazo-o-toluidine
4-tert-butylphenol
nitrobenzene
1-bromopropane
ethylenediamine
furan
2-methoxyethyl acetate
6-methoxy-m-toluidine
C,C'-azodi(formamide)
di-n-pentyl phthalate (DPP)
benzo[ghi]perylene
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1
4-Nonylphenol, branched and linear [substances w
Trixylyl phosphate
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated
4-Nonylphenol, branched and linear, ethoxylated
4-Heptylphenol, branched and linear
Nonadecafluorodecanoic acid (PFDA) and its sodiu
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propio
Tris(4-nonylphenyl, branched and linear)
phosphi
Fluoranthene
Pyrene
Chrysene
Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]o
Reaction
products of 1,3,4-thiadiazolidine-2,5-d
Perfluorononan-1-oic acid
(2,2,3,3,4,4,5,5,6,6,7
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated
hexahydro-2-benzofuran-1,3-dione
Methylhexahydrophthalic anhydride

Sodium perborate;
perboric acid, sodium
salt
Cadmium sulphate
reaction mass of
2-ethylhexyl 10-
ethyl-4,4-dioct
1,2-
benzenedicarboxylic
acid, di-C6-10-alkyl
est
5-sec-butyl-2-(2,4-
dimethylcyclohex-3-
en-1-yl)-5
Perfluorohexane-1-
sulphonic acid and its
salts
Acids generated from
chromium trioxide and
their
2-ethylhexyl 10-
ethyl-4,4-dioctyl-7-
oxo-8-oxa-3,
dibutylbis(pentane-2,4-
dionato-O,O')tin
2-(2H-benzotriazol-2-
yl)-4,6-
ditertpentylphenol
2-(2H-benzotriazol-2-
yl)-4-(tert-butyl)-6-
(sec-b
Terphenyl,
hydrogenated
1,2-
Benzenedicarboxylic
acid, dihexyl ester,
bra
diisohexyl phthalate
pentacosafuorotridecanoic
acid
1,2-
benzenedicarboxylic
acid, dipentylester,
bra
2-methyl-1-(4-
methylthiophenyl)-2-
morpholinoprop
4,4-
isobutylethylidenediphenol
2-benzyl-2-
dimethylamino-4-
morpholinobutyropheno
3-ethyl-2-methyl-2-
(3-methylbutyl)-1,3-
oxazolidi
n-pentyl-
isopentylphthalate
1,3-BENZENEDIOL,
TRINITRO-, LEAD
SALT
Hydrazine
Disodium tetraborate
Boric acid
4,4'-Oxydianiline and
its salts

Aluminosilicate
Refractory Ceramic
Fibres
Zirconia
Aluminosilicate
Refractory Ceramic
Fibr
cobalt dinitrate
cobalt sulphate
2-ethoxyethyl acetate
strontium chromate
1,2-
benzenedicarboxylic
acid; di-C7-11-
branched
N-methyl-2-
pyrrolidone
1,2,3-trichloropropane
1,2-
benzenedicarboxylic
acid; di-C6-8-
branched a
calcium arsenate
bis(2-methoxyethyl)
ether
potassium
hydroxyoctaoxidizincatedichromate(1-)
lead dipicrate
N,N-
dimethylacetamide
arsenic acid
2-methoxyaniline
trilead diarsenate
1,2-dichloroethane
pentazinc chromate
octahydroxide
Formaldehyde,
polymer with
benzenamine
bis(2-methoxyethyl)
phthalate
lead diazide
phenolphthalein
dichromium
tris(chromate)
cobalt di(acetate)
triethyl arsenate
4,4'-
diaminodiphenylmethane
lead hydrogen
arsenate
2,4-dinitrotoluene
Anthracene oil;
Anthracene oil
Anthracene oil,
anthracene paste;
Anthracene Oil
Anthracene oil,
anthracene paste,
anthracene fra
Anthracene oil,
anthracene paste,
distn. lights;

Anthracene oil,
anthracene-low;
Anthracene Oil F
diisobutyl phthalate
(DIBP)
lead chromate
Lead chromate
molybdate sulfate red
Lead sulfochromate
yellow
Pitch, coal tar, high-
temp.; Pitch
tris(2-chloroethyl)
phosphate
ammonium
dichromate
potassium chromate
potassium dichromate
sodium chromate
tetraboron disodium
heptaoxide, hydrate
trichloroethylene
2-ethoxyethanol
cobalt carbonate
2,2'-dichloro-4,4'-
methylenedianiline
lead dinitrate
cadmium chloride
Silicic acid, lead salt
lead oxide sulfate
lead titanium trioxide
pentalead tetraoxide
sulphate
trilead dioxide
phosphonate
tetralead trioxide
sulphate
dioxobis(stearato)trilead
Lead titanium
zirconium oxide
lead
bis(tetrafluoroborate)
lead cyanamidate
cadmium hydroxide
Acetic acid, lead salt,
basic
Sulfurous acid, lead
salt, dibasic
Silicic acid (H₂Si₂O₅),
barium salt (1:1),
lead-
[phthalato(2-)]dioxotrilead
Fatty acids, C16-18,
lead salts
lead(II)
methanesulphonate
1,3,5-tris-[(2S
and 2R)-2,3-
epoxypropyl]-1,3,5-t
benzo[a]pyrene
4-aminoazobenzene
pyrochlore, antimony
lead yellow
formamide
tetraethyllead

4,4'-
bis(dimethylamino)benzophenone

N,N,N',N'-

tetramethyl-4,4'-

methyldianiline

1,2-dimethoxyethane

1,2-bis(2-

methoxyethoxy)ethane

lead di(acetate)

[4-[4,4'-

bis(dimethylamino)

benzhydrylidene]cycl

4,4'-

bis(dimethylamino)-4"-

(methylamino)trityl

bis(pentabromophenyl)

ether

diboron trioxide

cadmium oxide (non-

pyrophoric)

cadmium sulphide

orange lead

trilead bis(carbonate)

dihydroxide

Lead oxide

1,3,5-

tris(oxiranylmethyl)-1,3,5-

triazine-2,4,6(

[4-[[4-anilino-1-

naphthyl]][4-

(dimethylamino)phen

α,α #Bis[4-

(dimethylamino)phenyl]-4

(phenylamino)

cadmium

cadmium fluoride

pyrochlore, antimony

lead yellow

Halogen-Free

Status

Low-Halogen

For more information, please visit [Contact US](#)

China ROHS

Green Image

ELV

Not Relevant

RoHS Phthalates

Not Contained

Search Parts in this Series

[171982 Series](#)

This document was generated on 10/22/2020

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION