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Part Number: [105311203](#)
Status: **Active**
Overview: [Nano-Fit Power Connectors](#)
Description: Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 3 Circuits, with Solder Clips, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable

Documents:

3D Model	Product Specification PS-105300-100-001 (PDF)
Drawing (PDF)	Application Specification AS-105300-100-001 (PDF)
3D Model (PDF)	Packaging Specification PK-105309-300-000 (PDF)
Product Specification 1053001000-PS-CH-000 (PDF)	Test Summary 1053000000-TS-000 (PDF)
Product Specification 1053001000-PS-ES-000 (PDF)	Datasheet (PDF)
Product Specification 1053001000-PS-JP-000 (PDF)	Symbol Footprint Data SYM-105311-XX03-001 (PDF)
Product Specification 1053001000-PS-SK-000 (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

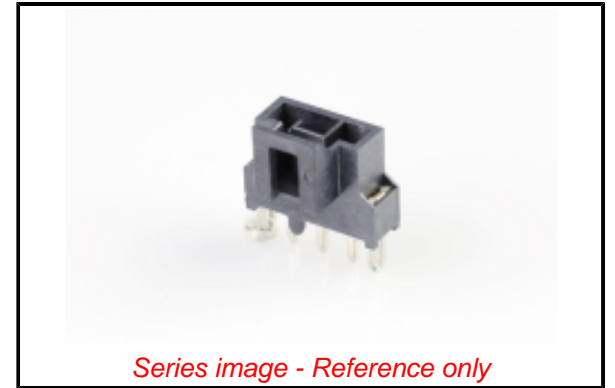
CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	105311
Application	Power, Wire-to-Board
Overview	Nano-Fit Power Connectors
Packaging Alternative	1053113703
Product Name	Nano-Fit
UPC	887191932781

Physical

Breakaway	No
Circuits (Loaded)	3
Circuits (maximum)	3
Color - Resin	Black
Durability (mating cycles max)	50
Flammability	94V-0
Glow-Wire Capable	Yes
Guide to Mating Part	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Liquid Crystal Polymer
Net Weight	0.490/g
Number of Rows	1
Orientation	Vertical
PC Tail Length	3.20mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.60mm, 2.40mm
Packaging Type	Tray
Pitch - Mating Interface	2.50mm
Pitch - Termination Interface	2.50mm
Plating min - Mating	0.381µm
Plating min - Termination	1.524µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Contained Per -
D(2021)10043-DC (17
Jan 2022)
1,2-
Benzenedicarboxylic
acid, bis(3-
methylbutyl)
methoxyacetic acid
Disodium 3,3'-[[1,1'-
Biphenyl]-4,4'-
Diylbis(Azo)
Benzene-1,2,4-
tricarboxylic acid 1,2-
anhydride
methoxyacetic acid
1,2-diethoxyethane
Dibutyltin-dichloride
2-methylimidazole
Benzene-1,2,4-
tricarboxylic acid 1,2-
anhydride
Decamethylcyclopentasiloxane
Dodecamethylcyclohexasiloxane
heptacosafuorotetradecanoic
acid
Octanoic acid,
2,2,3,3,4,4,5,5,6,6,7,7,8,8-
pen
tricosafuorododecanoic
acid
Benzo(ghi)perylene
2-(2H-Benzotriazol-2-
yl)-4,6-
ditertpentylphenol
2-ethylhexyl 10-
ethyl-4,4-dioctyl-7-
oxo-8-oxa-3,
1,7,7-trimethyl-3-
(phenylmethylene)bicyclo[2.2.1

China RoHS

Shrouded
Stackable
Surface Mount Compatible (SMC)
Temperature Range - Operating
Termination Interface: Style

Yes
No
No
-40° to +115°C
Through Hole

Electrical

Current - Maximum per Contact
Voltage - Maximum

7.5A
250V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Application Specification
Packaging Specification
Product Specification

AS-105300-100-001
PK-105309-300-000
1053001000-PS-CH-000, 1053001000-PS-ES-000,
1053001000-PS-JP-000, 1053001000-PS-SK-000,
PS-105300-100-001
SD-105311-100-000
SYM-105311-XX03-001
1053000000-TS-000

Sales Drawing
Symbol/Footprint Data
Test Summary

Disodium-octaborate
sodium
peroxometaborate
Ammonium-
pentadecafluorooctanoate
henicosafuoroundecanoic
acid
C.I. Direct Black 38
chromium trioxide
1,3-Propanesultone
1-vinylimidazole
4,4'-methylenedi-o-
toluidine
2-methylimidazole
Benzo(ghi)perylene
4-tert-butylphenol
4-o-tolylazo-o-
toluidine
Imidazolidine-2-thione
4-methyl-m-
phenylenediamine
o-toluidine
butyl 4-
hydroxybenzoate
Dinoseb
Phenanthrene
Dihexyl-phthalate
Dicyclohexyl-
phthalate
p-(1,1-
dimethylpropyl)phenol
Acetamide, N-methyl-
bis(2-(2-
methoxyethoxy)ethyl)
ether
Dipentyl phthalate
1,4-dioxane
C,C'-
azodi(formamide)
6-methoxy-m-toluidine
6,6'-di-tert-butyl-2,2'-
methylenedi-p-cresol
Glutaral
2-Methoxyethyl
acetate
furan
Ethylenediamine
1-bromopropane
nitrobenzene
Cadmium nitrate
Benz[a]anthracene
Pyrene
Fluoranthene
Perfluorobutane
sulfonic acid (PFBS)
and its sal
Phenol, alkylation
products (mainly in
para posi
orthoboric acid,
sodium salt
Medium-chain
chlorinated paraffins
(MCCP)

2-(4-tert-butylbenzyl)propionaldehyde and its in
2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-Tris(4-nonylphenyl, branched and linear) phosphi
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propio
Perfluorohexane-1-sulphonic acid and its salts
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5
reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioct
Cadmium sulphate
Sodium perborate; perboric acid, sodium salt
Methylhexahydrophthalic anhydride
hexahydro-2-benzofuran-1,3-dione
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated
Perfluorononan-1-oic acid
(2,2,3,3,4,4,5,5,6,6,7
Dioctyltin dilaurate, stannane, dioctyl-, bis(co
Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]o
Chrysene
Nonadecafluorodecanoic acid (PFDA) and its sodiu
1,3-BENZENEDIOL, TRINITRO-, LEAD SALT
S-
(tricyclo(5.2.1.02,6)deca-3-en-8(or 9)-yl O-(i
n-pentyl-
isopentylphthalate
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidi
2-benzyl-2-dimethylamino-4-morpholinobutyropheno
4,4-isobutylethylidenediphenol
2-Methyl-1-(4-methylthiophenyl)-2-morpholinoprop
1,2-Benzenedicarboxylic acid, dipentyl ester, br

pentacosafuorotridecanoic
acid
diisohexyl phthalate
1,2-
Benzenedicarboxylic
acid, dihexyl ester,
bra
Terphenyl,
hydrogenated
2-(2H-Benzotriazol-2-
yl)-4,6-
ditertpentylphenol
Nonadecafluorodecanoic
acid (PFDA) and its
sodiu
4-Heptylphenol,
branched and linear
4-Nonylphenol,
branched and linear,
ethoxylated
4-(1,1,3,3-
tetramethylbutyl)phenol,
ethoxylated
4-Nonylphenol,
branched and linear
[substances w
Acids generated from
chromium trioxide and
their
Zirconia
Aluminosilicate
Refractory Ceramic
Fibr
Aluminosilicate
Refractory Ceramic
Fibres
4,4'-Oxydianiline and
its salts
Boric acid
Disodium tetraborate
Hydrazine
1,3-BENZENEDIOL,
TRINITRO-, LEAD
SALT
Potassium
hydroxyoctaoxodizincatedichromate
bis(2-methoxyethyl)
ether
Calcium-arsenate
1,2-
Benzenedicarboxylic
acid, di-C6-8-
branched a
1,2,3-
Trichloropropane
1-Methyl-2-
pyrrolidone
1,2-
Benzenedicarboxylic
acid, di-C7-11-
branched
Strontium-chromate
2-Ethoxyethyl acetate
Cobalt sulphate
Cobalt-dinitrate

Acetic acid, cobalt(2+) salt
Carbonic acid, cobalt(2+) salt (1:1)
formamide
2,2'-dichloro-4,4'-methylenedianiline
Dichromium tris(chromate) phenolphthalein
1,2-Benzenedicarboxylic acid, bis(2-methoxyethyl)
Formaldehyde, polymer with benzenamine
1,2-dichloroethane
Trilead-diarsenate
2-methoxyaniline
Arsenic-acid
N,N-dimethylacetamide (DMAc, DMA)
Lead-dipicrate
Potassium hydroxyoctaoxidizincatedichromate
Carbonic acid, cobalt(2+) salt (1:1)
Diisobutyl-phthalate
Anthracene oil, anthracene-low; Anthracene Oil F
Anthracene oil, anthracene paste, distn. lights;
Anthracene oil, anthracene paste, anthracene fra
Anthracene oil, anthracene paste;
Anthracene Oil
Anthracene oil;
Anthracene oil
2,4-Dinitrotoluene
Arsenic acid (H₃AsO₄), lead(2+) salt (1:1)
Di-(2-ethylhexyl)phthalat
Dibutylphthalate
4,4'-diaminodiphenylmethane
Arsenic acid (H₃AsO₄), triethyl ester
2-Ethoxyethanol
Trichloroethylene
Boric acid, disodium salt, hydrate
Sodium-chromate
Potassium-dichromate
Potassium-chromate
Ammonium-dichromate

Tris(2-chloroethyl)
phosphate
Pitch, coal tar, high-
temp.
Lead sulfochromate
yellow
Lead chromate
molybdate sulfate red
Lead chromate
Cadmium Hydroxide
Cyanamide, lead(2+)
salt (1:1)
Borate(1-),
tetrafluoro-, lead (2+)
Lead titanium
zirconium oxide
Dioxobis(stearato)trilead
Tetralead-trioxide-
sulphate
Trilead-dioxide-
phosphonate
Pentalead-tetraoxide-
sulphate
Lead-titanium-trioxide
Lead oxide sulfate
(Pb₂O(SO₄))
Silicic acid, lead salt
Cadmium-chloride
dimethyl sulphate
4,4'-(1-
Methylpropylidene)bisphenol
propylene oxide
diethyl sulphate
4-aminoazobenzene
1,3,5-tris-[(2S
and 2R)-2,3-
epoxypropyl]-1,3,5-t
Lead(II)
methanesulfonate
Fatty Acids, C16-18,
Lead Salts
[Phthalato(2-)]dioxotrilead
Silicic acid (H₂Si₂O₅),
barium salt (1:1),
lead-
Sulfurous Acid, Lead
Salt, Dibasic
Acetic Acid, Lead
Salt, Basic
Lead-dinitrate
Cadmium-oxide
Diboron-trioxide
Decabromodiphenylether
4,4'-
bis(dimethylamino)-4''-
(methylamino)trityl
[4-[4,4'-
bis(dimethylamino)
benzhydrylidene]cycl
Cadmium-carbonate
Lead di(acetate)
1,2-bis(2-
methoxyethoxy)ethane
1,2-Dimethoxyethane

N,N,N',N'-
tetramethyl-4,4'-
methyldianiline
4,4'-
bis(dimethylamino)benzophenone
Tetraethyllead
formamide
Lead-dinitrate
pyrochlore, antimony
lead yellow
Cadmium-fluoride
Cadmium
Lead

α,α #Bis[4-
(dimethylamino)phenyl]-4
(phenylamino)
[4-[[4-Anilino-1-
naphthyl]]4-
(dimethylamino)phen
1,3,5-
tris(oxiranylmethyl)-1,3,5-
triazine-2,4,6(
Lead Oxide
Trilead bis(carbonate)
dihydroxide
Lead(II,IV)-oxide
Cadmium-sulphide
Cadmium-oxide

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

[105311](#) Series

Mates With

Nano-Fit Receptacle Housing [1053071203](#)

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