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**Part Number:** [1053121316](#)  
**Status:** **Active**  
**Overview:** [Nano-Fit Power Connectors](#)  
**Description:** Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray

**Documents:**

<a href="#">Drawing (PDF)</a>	<a href="#">Product Specification PS-105300-100-001 (PDF)</a>
<a href="#">3D Model</a>	<a href="#">Application Specification AS-105300-100-001 (PDF)</a>
<a href="#">3D Model (PDF)</a>	<a href="#">Packaging Specification PK-105309-100-000 (PDF)</a>
<a href="#">Product Specification 1053001000-PS-CH-000 (PDF)</a>	<a href="#">Test Summary 1053000000-TS-000 (PDF)</a>
<a href="#">Product Specification 1053001000-PS-ES-000 (PDF)</a>	<a href="#">Datasheet (PDF)</a>
<a href="#">Product Specification 1053001000-PS-JP-000 (PDF)</a>	<a href="#">Symbol Footprint Data SYM-105312-XX16 (PDF)</a>
<a href="#">Product Specification 1053001000-PS-SK-000 (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>

**Agency Certification**

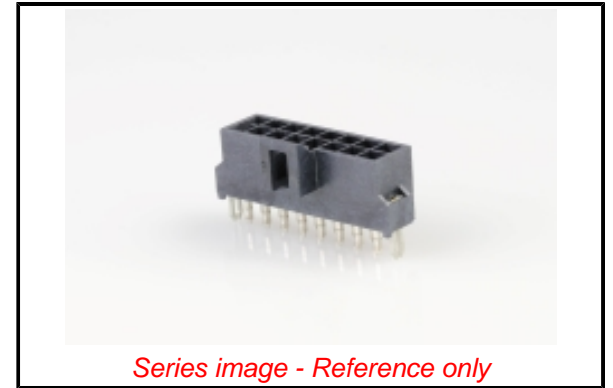
CSA	LR19980
UL	E29179

**General**

Product Family	PCB Headers
Series	<a href="#">105312</a>
Application	Power, Wire-to-Board
Overview	<a href="#">Nano-Fit Power Connectors</a>
Packaging Alternative	<a href="#">1053123616</a>
Product Name	Nano-Fit
UPC	887191930985

**Physical**

Breakaway	No
Circuits (Loaded)	16
Circuits (maximum)	16
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	1.520/g
Number of Rows	2
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	0.762µm
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(2020)4578-DC (25  
June 2020)  
decamethylcyclotetrasiloxane  
benzene-1,2,4-  
tricarboxylic acid 1,2-  
anhydride  
decamethylcyclotetrasiloxane  
dodecamethylcyclohexasiloxane  
octamethylcyclotetrasiloxane  
disodium 3,3'-[[1,1'-  
biphenyl]-4,4'-  
diylbis(azo)  
dodecamethylcyclohexasiloxane  
heptacosafuorotetradecanoic  
acid  
tricosafuorododecanoic  
acid  
di-n-pentyl phthalate  
(DPP)  
6-methoxy-m-toluidine  
diisopentylphthalate  
methoxyacetic acid  
dibutyltin dichloride  
4,4'-methylenedi-o-  
toluidine  
1-vinylimidazole  
1,3-propanesultone  
chromium trioxide  
disodium 4-  
amino-3-[[4'-[(2,4-  
diaminophenyl)azo]  
henicosafuoroundecanoic  
acid  
Silicic acid (H<sub>2</sub>Si<sub>2</sub>O<sub>5</sub>),  
barium salt (1:1),  
lead-  
[phthalato(2-)]dioxotrilead

**China RoHS**

Shrouded Yes  
Stackable No  
Surface Mount Compatible (SMC) No  
Temperature Range - Operating -40° to +115°C  
Termination Interface: Style Through Hole

#### Electrical

Current - Maximum per Contact 8.0A  
Voltage - Maximum 250V AC (RMS)/DC

#### Material Info

#### Reference - Drawing Numbers

Application Specification AS-105300-100-001  
Packaging Specification PK-105309-100-000  
Product Specification 1053001000-PS-CH-000, 1053001000-PS-ES-000,  
1053001000-PS-JP-000, 1053001000-PS-SK-000,  
PS-105300-100-001  
SD-105312-100-000  
Sales Drawing SYM-105312-XX16  
Symbol/Footprint Data  
Test Summary 1053000000-TS-000

Fatty acids, C16-18,  
lead salts  
4-aminoazobenzene  
diethyl sulphate  
dimethyl sulphate  
N-methylacetamide  
dicyclohexyl phthalate  
dihexyl phthalate  
(DnHP)  
dinoseb (ISO)  
butyl 4-  
hydroxybenzoate  
o-toluidine  
4-methyl-m-  
phenylenediamine  
ethylene thiourea  
4-o-tolylazo-o-  
toluidine  
nitrobenzene  
1-bromopropane  
furan  
ammoniumpentadecafluorooctanoate  
Zirconia  
Aluminosilicate  
Refractory Ceramic  
Fibr  
Trixylyl phosphate  
4-(1,1,3,3-  
tetramethylbutyl)phenol,  
ethoxylated  
2,3,3,3-tetrafluoro-2-  
(heptafluoropropoxy)propio  
Tris(4-nonylphenyl,  
branched and linear)  
phosphi  
Pyrene  
Cadmium nitrate  
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  
Sodium perborate;  
perboric acid, sodium  
salt  
Cadmium sulphate  
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  
ammoniumpentadecafluorooctanoate

sodium  
peroxometaborate  
disodium octaborate  
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  
pentacosafuorotridecanoic  
acid  
1,2-  
benzenedicarboxylic  
acid, dipentylester,  
bra  
3-ethyl-2-methyl-2-  
(3-methylbutyl)-1,3-  
oxazolidi  
n-pentyl-  
isopentylphthalate  
1,3-BENZENEDIOL,  
TRINITRO-, LEAD  
SALT  
Hydrazine  
Disodium tetraborate  
Boric acid  
Aluminosilicate  
Refractory Ceramic  
Fibres  
Sulfurous acid, lead  
salt, dibasic  
sodium chromate  
tetraboron disodium  
heptaoxide, hydrate  
cobalt carbonate  
cobalt di(acetate)  
cobalt sulphate  
2-ethoxyethyl acetate  
1,2-  
benzenedicarboxylic  
acid; di-C7-11-  
branched  
N-methyl-2-  
pyrrolidone  
1,2-  
benzenedicarboxylic  
acid; di-C6-8-  
branched a  
calcium arsenate  
bis(2-methoxyethyl)  
ether  
potassium  
hydroxyoctaoxodizincatedichromate(1-)  
lead dipicrate

N,N-  
dimethylacetamide  
arsenic acid  
2-methoxyaniline  
trilead diarsenate  
1,2-dichloroethane  
triethyl arsenate  
4,4'-  
diaminodiphenylmethane  
dibutyl phthalate  
(DBP)  
bis(2-ethylhexyl)  
phthalate (DEHP)  
lead hydrogen  
arsenate  
Butylbenzylphthalate  
(BBP)  
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  
lead chromate  
Lead chromate  
molybdate sulfate red  
Lead sulfochromate  
yellow  
tris(2-chloroethyl)  
phosphate  
ammonium  
dichromate  
potassium chromate  
potassium dichromate  
sodium chromate  
pentazinc chromate  
octahydroxide  
1,3,5-  
tris(oxiranylmethyl)-1,3,5-  
triazine-2,4,6(  
[4-[[4-anilino-1-  
naphthyl]]4-  
(dimethylamino)phen  
 $\alpha,\alpha$ #Bis[4-  
(dimethylamino)phenyl]-4  
(phenylamino)  
lead  
cadmium  
cadmium fluoride  
pyrochlore, antimony  
lead yellow  
lead dinitrate  
cadmium chloride  
Silicic acid, lead salt  
lead oxide sulfate  
pentalead tetraoxide  
sulphate  
trilead dioxide  
phosphonate

tetralead trioxide  
sulphate  
dioxobis(stearato)trilead  
Lead titanium  
zirconium oxide  
cadmium hydroxide  
Acetic acid, lead salt,  
basic  
Sulfurous acid, lead  
salt, dibasic  
pentazinc chromate  
octahydroxide  
Formaldehyde,  
polymer with  
benzenamine  
bis(2-methoxyethyl)  
phthalate  
lead diazide  
phenolphthalein  
dichromium  
tris(chromate)  
4,4'-  
bis(dimethylamino)benzophenone  
1,2-dimethoxyethane  
cadmium carbonate  
[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(

**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**  
[105312 Series](#)

**Mates With**  
Nano-Fit Receptacle Housing [1053081216](#)