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**Part Number:** [087833621](#)  
**Status:** **Active**  
**Overview:** [Milli-Grid Connector System](#)  
**Description:** 2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Right-Angle, Through Hole, 36 Circuits, 0.76µm Gold (Au) Plating, without PCB Locator, with Locking Windows, Center Polarization Slot, Tube

**Documents:**

<a href="#">Drawing (PDF)</a>	<a href="#">Packaging Specification PK-87831-001-001 (PDF)</a>
<a href="#">3D Model (PDF)</a>	<a href="#">Packaging Specification PK-87831-002-001 (PDF)</a>
<a href="#">3D Model</a>	<a href="#">Packaging Specification PK-87831-300-001 (PDF)</a>
<a href="#">Product Specification PS-87831-027-001 (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>
<a href="#">Application Specification 503940001-AS-000 (PDF)</a>	

**Agency Certification**

CSA	LR19980
UL	E29179

**General**

Product Family	PCB Headers
Series	<a href="#">87833</a>
Application	Signal, Wire-to-Board
Comments	Contact Molex for application in automotive industry
Overview	<a href="#">Milli-Grid Connector System</a>
Product Name	Milli-Grid
UPC	822348271535

**Physical**

Breakaway	No
Circuits (Loaded)	36
Circuits (maximum)	36
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Capable	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Net Weight	1.873/g
Number of Rows	2
Orientation	Right Angle
PC Tail Length	2.16mm
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	1.60mm
Packaging Type	Tube
Pitch - Mating Interface	2.00mm
Pitch - Termination Interface	2.00mm
Plating min - Mating	0.762µm
Plating min - Termination	1.905µm
Polarized to PCB	No
Shrouded	Fully



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Contained Per -  
D(2020)4578-DC (25  
June 2020)  
1,2-  
Benzenedicarboxylic  
acid, dihexyl ester,  
bra  
Terphenyl,  
hydrogenated  
2-(2H-benzotriazol-2-  
yl)-4-(tert-butyl)-6-  
(sec-b  
2-(2H-benzotriazol-2-  
yl)-4,6-  
ditertpentylphenol  
2-ethylhexyl 10-  
ethyl-4,4-dioctyl-7-  
oxo-8-oxa-3,  
sodium  
peroxometaborate  
2,4-di-tert-butyl-6-(5-  
chlorobenzotriazol-2-  
yl)p  
2-benzotriazol-2-  
yl-4,6-di-tert-  
butylphenol  
ammoniumpentadecafluorooctanoate  
disodium 4-  
amino-3-[[4'-[(2,4-  
diaminophenyl)azo]  
1,3-propanesultone  
1-vinylimidazole  
1,2-diethoxyethane  
disodium 3,3'-[[1,1'-  
biphenyl]-4,4'-  
diylbis(azo)  
dodecamethylcyclohexasiloxane  
perfluorooctanoic acid

**China RoHS**

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

No  
Yes  
-55° to +105°C  
Through Hole

#### Electrical

Current - Maximum per Contact  
Voltage - Maximum

2.0A  
125V

#### Solder Process Data

Lead-free Process Capability

WAVE

#### Material Info

#### Reference - Drawing Numbers

Application Specification  
Packaging Specification

503940001-AS-000  
PK-87831-001-001, PK-87831-002-001,  
PK-87831-300-001

Product Specification  
Sales Drawing

PS-87831-027-001  
SD-87833-0001-001

di-n-pentyl phthalate  
(DPP)

furan

4-o-tolylazo-o-  
toluidine

ethylene thiourea

4-methyl-m-  
phenylenediamine

o-toluidine

butyl 4-

hydroxybenzoate

phenanthrene

dicyclohexyl phthalate

p-(1,1-

dimethylpropyl)phenol

N-methylacetamide

dimethyl sulphate

pentacosafuorotridecanoic  
acid

Perfluorohexane-1-

sulphonic acid and its  
salts

5-sec-butyl-2-(2,4-  
dimethylcyclohex-3-  
en-1-yl)-5

1,2-

benzenedicarboxylic  
acid, di-C6-10-alkyl

est

reaction mass of

2-ethylhexyl 10-

ethyl-4,4-dioct

Cadmium sulphate

Bisphenol-A

Methylhexahydrophthalic  
anhydride

Perfluorononan-1-  
oic acid

(2,2,3,3,4,4,5,5,6,6,7

Reaction

products of 1,3,4-

thiadiazolidine-2,5-d

Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]o

Pyrene

Perfluorobutane

sulfonic acid (PFBS)

and its sal

Tris(4-nonylphenyl,  
branched and linear)

phosphi

Nonadecafluorodecanoic  
acid (PFDA) and its

sodiu

4-Nonylphenol,  
branched and linear,

ethoxylated

Trixylyl phosphate

4-Nonylphenol,  
branched and linear

[substances w

Zirconia

Aluminosilicate

Refractory Ceramic

Fibr

Aluminosilicate  
Refractory Ceramic  
Fibres  
Sodium dichromate  
4,4'-Oxydianiline and  
its salts  
Boric acid  
Disodium tetraborate  
n-pentyl-  
isopentylphthalate  
3-ethyl-2-methyl-2-  
(3-methylbutyl)-1,3-  
oxazolidi  
2-benzyl-2-  
dimethylamino-4-  
morpholinobutyropheno  
2-methyl-1-(4-  
methylthiophenyl)-2-  
morpholinoprop  
1,2-  
benzenedicarboxylic  
acid, dipentylester,  
bra  
benzo[a]pyrene  
1,2-  
benzenedicarboxylic  
acid; di-C6-8-  
branched a  
1,2,3-trichloropropane  
N-methyl-2-  
pyrrolidone  
1,2-  
benzenedicarboxylic  
acid; di-C7-11-  
branched  
2-ethoxyethyl acetate  
cobalt sulphate  
cobalt dinitrate  
cobalt carbonate  
2-methoxyethanol  
2-ethoxyethanol  
trichloroethylene  
tetraboron disodium  
heptaoxide, hydrate  
potassium dichromate  
potassium chromate  
Pitch, coal tar, high-  
temp.; Pitch  
Lead chromate  
molybdate sulfate red  
lead chromate  
Anthracene oil,  
anthracene-low;  
Anthracene Oil F  
lead hydrogen  
arsenate  
bis(tributyltin) oxide  
alkanes, C10-13,  
chloro  
bis(2-ethylhexyl)  
phthalate (DEHP)  
musk xylene  
diarsenic trioxide  
diarsenic pentaoxide  
cobalt dichloride

dibutyl phthalate  
(DBP)  
4,4'-  
diaminodiphenylmethane  
potassium  
hydroxyoctaoxodizincatedichromate(1-)  
Fatty acids, C16-18,  
lead salts  
[phthalato(2-)]dioxotrilead  
Silicic acid (H<sub>2</sub>Si<sub>2</sub>O<sub>5</sub>),  
barium salt (1:1),  
lead-  
Sulfurous acid, lead  
salt, dibasic  
lead  
bis(tetrafluoroborate)  
dioxobis(stearato)trilead  
tetralead trioxide  
sulphate  
lead titanium trioxide  
lead oxide sulfate  
Silicic acid, lead salt  
lead dinitrate  
cadmium  
lead  
[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  
orange lead  
cadmium oxide (non-  
pyrophoric)  
diboron trioxide  
cadmium carbonate  
N,N,N',N'-  
tetramethyl-4,4'-  
methylenedianiline  
2,2'-dichloro-4,4'-  
methylenedianiline  
dichromium  
tris(chromate)  
bis(2-methoxyethyl)  
phthalate  
pentazinc chromate  
octahydroxide  
trilead diarsenate  
arsenic acid

**Halogen-Free**

**Status**

**Not 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**

**87833 Series**

**Mates With**

Milli-Grid Vertical Through Hole Receptacle [79107](#) , [78787](#) , Milli-Grid Flex-to-Board Vertical Receptacle [79108](#) , Milli-Grid Vertical Surface Mount Receptacle [79109](#) , [78788](#) , Milli-Grid Crimp Housing [51110](#) , Milli-Grid Cable-to-Board Receptacle [87568](#)

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