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**Part Number:** [1721403808](#)  
**Status:** **Active**  
**Overview:** [Impel and Impel Plus Backplane Solutions](#)  
**Description:** Impel 90 Ohm 4 Pair Right-Angle Header, 1.90mm Pitch, Right Guided, 8 Columns, 64 Circuits, Pin Length 5.50mm, Plated Through Hole Dimension 0.36mm

**Documents:**

<a href="#">3D Model</a>	<a href="#">Application Specification AS-171320-991-001 (PDF)</a>
<a href="#">Drawing (PDF)</a>	<a href="#">Application Specification AS-171320-992-001 (PDF)</a>
<a href="#">3D Model (PDF)</a>	<a href="#">Packaging Specification PK-78888-314-001 (PDF)</a>
<a href="#">Product Specification PS-171320-999-001 (PDF)</a>	<a href="#">Symbol Footprint Data SYM-172140-3808 (PDF)</a>
<a href="#">Application Specification AS-171320-990-001 (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>

**Agency Certification**

UL E29179

**General**

Product Family	Backplane Connectors
Series	<a href="#">172140</a>
Application	Backplane, Coplanar
Application Tooling Documents	TM-622018899
Component Type	PCB Header
Overview	<a href="#">Impel and Impel Plus Backplane Solutions</a>
Product Name	Impel
UPC	887191898377

**Physical**

Circuits (Loaded)	64
Circuits (maximum)	64
Color - Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
Flammability	94V-0
Guide to Mating Part	Yes
Keying to Mating Part	None
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	26.716/g
Number of Columns	8
Number of Pairs	4
Number of Rows	8
Orientation	Right Angle
PC Tail Length	1.30mm
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	1.00mm
Packaging Type	Tray
Pitch - Mating Interface	1.90mm
Pitch - Termination Interface	1.90mm
Plating min - Mating	0.762µm
Temperature Range - Operating	-55° to +85°C

**Electrical**

Current - Maximum per Contact	0.75A
Data Rate	40.0 Gbps



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Contained Per -  
D(2020)4578-DC (25  
June 2020)  
disodium 3,3'-[[1,1'-  
biphenyl]-4,4'-  
diylbis(azo)  
1,2-diethoxyethane  
1-vinylimidazole  
1,3-propanesultone  
disodium 4-  
amino-3-[[4'-[(2,4-  
diaminophenyl)azo]  
ammoniumpentadecafluorooctanoate  
2-benzotriazol-2-  
yl-4,6-di-tert-  
butylphenol  
2,4-di-tert-butyl-6-(5-  
chlorobenzotriazol-2-  
yl)p  
sodium  
peroxometaborate  
2-ethylhexyl 10-  
ethyl-4,4-dioctyl-7-  
oxo-8-oxa-3,  
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  
dodecamethylcyclohexasiloxane  
benzo[a]pyrene  
dimethyl sulphate

**China RoHS**

Impedance 90Ω  
Shield Type Full Shield  
Voltage - Maximum 150V AC (RMS)/DC

#### Solder Process Data

Lead-free Process Capability N/A

#### Material Info

#### Reference - Drawing Numbers

Application Specification AS-171320-990-001, AS-171320-991-001,  
AS-171320-992-001  
Packaging Specification PK-78888-314-001  
Product Specification PS-171320-999-001  
Sales Drawing SD-172140-0002-001  
Symbol/Footprint Data SYM-172140-3808

N-methylacetamide  
p-(1,1-dimethylpropyl)phenol  
dicyclohexyl phthalate  
phenanthrene  
butyl 4-hydroxybenzoate  
o-toluidine  
4-methyl-m-phenylenediamine  
ethylene thiourea  
4-o-tolylazo-o-toluidine  
furan  
di-n-pentyl phthalate (DPP)  
perfluorooctanoic acid  
dodecamethylcyclhexasiloxane  
pentacosafuorotridecanoic acid  
Nonadecafluorodecanoic acid (PFDA) and its sodiu  
Tris(4-nonylphenyl, branched and linear) phosphi  
Perfluorobutane sulfonic acid (PFBS) and its sal  
Pyrene  
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  
Methylhexahydrophthalic anhydride  
Bisphenol-A  
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  
4-Nonylphenol, branched and linear, ethoxylated  
pentacosafuorotridecanoic acid  
1,2-benzenedicarboxylic acid, dipentylester, bra

2-methyl-1-(4-methylthiophenyl)-2-morpholinoprop  
2-benzyl-2-dimethylamino-4-morpholinobutyropheno  
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidi  
n-pentyl-  
isopentylphthalate  
Disodium tetraborate  
Boric acid  
4,4'-Oxydianiline and its salts  
Sodium dichromate  
Aluminosilicate  
Refractory Ceramic Fibres  
Zirconia  
Aluminosilicate  
Refractory Ceramic Fibr  
4-Nonylphenol, branched and linear [substances w  
Trixylyl phosphate  
4-Nonylphenol, branched and linear, ethoxylated  
potassium chromate  
potassium dichromate  
tetraboron disodium heptaoxide, hydrate  
trichloroethylene  
2-ethoxyethanol  
2-methoxyethanol  
cobalt carbonate  
cobalt dinitrate  
cobalt sulphate  
2-ethoxyethyl acetate  
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  
potassium  
hydroxyoctaoxidizincatedichromate(1-)  
potassium chromate  
4,4'-diaminodiphenylmethane  
dibutyl phthalate (DBP)  
cobalt dichloride  
diarsenic pentaoxide  
diarsenic trioxide  
musk xylene  
bis(2-ethylhexyl) phthalate (DEHP)

alkanes, C10-13,  
chloro  
bis(tributyltin) oxide  
lead hydrogen  
arsenate  
Anthracene oil,  
anthracene-low;  
Anthracene Oil F  
lead chromate  
Lead chromate  
molybdate sulfate red  
Pitch, coal tar, high-  
temp.; Pitch  
potassium  
hydroxyoctaoxidizincatedichromate(1-)  
[4-[[4-anilino-1-  
naphthyl]]4-  
(dimethylamino)phen  
lead  
cadmium  
lead dinitrate  
Silicic acid, lead salt  
lead oxide sulfate  
lead titanium trioxide  
tetralead trioxide  
sulphate  
dioxobis(stearato)trilead  
lead  
bis(tetrafluoroborate)  
Sulfurous acid, lead  
salt, dibasic  
Silicic acid (H<sub>2</sub>Si<sub>2</sub>O<sub>5</sub>),  
barium salt (1:1),  
lead-  
[phthalato(2-)]dioxotrilead  
Fatty acids, C16-18,  
lead salts  
benzo[a]pyrene  
[4-[[4-anilino-1-  
naphthyl]]4-  
(dimethylamino)phen  
arsenic acid  
trilead diarsenate  
pentazinc chromate  
octahydroxide  
bis(2-methoxyethyl)  
phthalate  
dichromium  
tris(chromate)  
2,2'-dichloro-4,4'-  
methylenedianiline  
N,N,N',N'-  
tetramethyl-4,4'-  
methylenedianiline  
cadmium carbonate  
diboron trioxide  
cadmium oxide (non-  
pyrophoric)  
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**

[172140 Series](#)

**Mates With**

[Impel Right-Angle Daughtercard  
1713203038](#)

**Application Tooling | [FAQ](#)**

*Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.*

**Global**

<b>Description</b>	<b>Product #</b>
Impel Daughtercard Module Installation Press-In Tool	<a href="#">622018959</a>

This document was generated on 10/28/2020

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