Product Features (Please use the Product Drawing for all design activity)

Product Type Features:

- Product Type = Plug
- Number of Positions = 64
- PCB Mount Angle = Vertical
- Keyed = No
- Comment = IEEE 1386 Mezzanine Connector.

Body Related Features:

- Centerline (mm [in]) = 1.00 [0.039]
- Board-to-Board Stack Height (mm [in]) = 10.00 [0.394], 12.00 [0.472], 13.00 [0.512], 15.00 [0.590]
- Locating Posts = With
- Vacuum Cover = Without
- Number of Rows = Dual

Contact Related Features:

- Family Name = Free Height
- Contact Layout = In-Line
- Contact Material = Copper Alloy
- Contact Mating Area Plating = Gold (30)
- Contact Termination Area Plating = Tin-Lead over Nickel

Housing Related Features:

- Housing Color = Black
- Housing Material = LCP
- Housing Flammability Rating = UL 94V-0
- Housing Material Temperature = High

Industry Standards:

- RoHS/ELV Compliance = ELV compliant, 5 of 6 Compliant
- Lead Free Solder Processes = Wave solder capable to 240°C, Wave solder capable to 260°C, Wave solder capable to 265°C, Reflow solder capable to 245°C, Reflow solder capable to 260°C, Pin-in-Paste capable to 245°C, Pin-in-Paste capable to 260°C
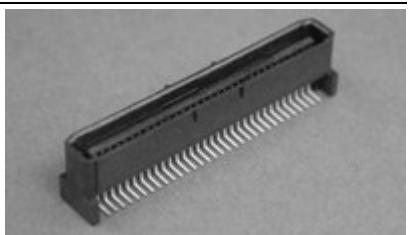
Packaging Related Features:

- Packaging Method = Tape & Reel

Other:

- Brand = AMP

Product Details for 120527-1

120527-1

Active

.4mm, .5mm, .6mm, .8mm, 1mm, Fine Pitch, Surface Mount, Stacking Bd-to-Bd Connectors

5 of 6 RoHS/ELV Compliant (Find RoHS Compliant Alternates/Compliance Statement)

Product Highlights:

- Plug
- Family Name = Free Height
- 1.00

REVISIONS

LTR	DESCRIPTION	DATE	DWN	APVD
D	REVISED PER EC 0512-0417-03	14FEB2004	RWS	RHW

LOC AD 39 DIST

NOTES

1. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER. COLOR: BLACK.
   CONTACT MATERIAL: PHOSPHOR BRONZE.

2. CONTACT FINISH: 0.00381 MINIMUM MATTE TIN-LEAD (93-7) ON SOLDER AREA. 0.00076 MINIMUM GOLD ON MATING AREA, BOTH OVER 0.00127 MINIMUM NICKEL ON ENTIRE CONTACT.

3. DATUM LOCATIONS AND BASIC DIMENSIONS TO BE ESTABLISHED BY THE CUSTOMER. CONSULT AMP ENGINEERING WHEN PLACING MULTIPLE CONNECTORS ON A PC BOARD.

4. PACKAGED IN TAPE ON REELS PER EIA-841.

5. 1.5±0.05 DIAMETER HOLE SHOULD BE USED IF PLACED ON PCB WITH VACUUM PLACEMENT EQUIPMENT.

6. SHORTER SOLDER LANDS MAY BE USED PER EIA 700AAAB, HOWEVER 2.7 LENGTH ASSURES OPTIMUM SOLDER FILLET.

7. CONTACT FINISH: 0.00381 MINIMUM MATTE TIN-LEAD (93-7) ON SOLDER AREA. 0.00127 MINIMUM GOLD ON MATING AREA, BOTH OVER 0.00127 MINIMUM NICKEL ON ENTIRE CONTACT.

RECOMMENDED PC BOARD LAYOUT

Part Table

FINISH	DIM D	DIM C	DIM B	DIM A	MATING CONNECTOR	STACK HGTS	POS	PART NO
	44.4	45.9	44.58	41	120524-2	15	84	1-120527-2
	44.4	45.9	44.58	41	120523-2	13	84	1-120527-2
	44.4	45.9	44.58	41	120603-2	10	84	1-120527-2
	44.4	45.9	44.58	41	120521-2	12	84	1-120527-1
	34.4	35.9	34.58	31	120524-1	15	64	1-120527-1
	34.4	35.9	34.58	31	120523-1	13	64	1-120527-1
	34.4	35.9	34.58	31	120603-1	10	64	1-120527-1
	34.4	35.9	34.58	31	120521-1	12	64	1-120527-1
	44.4	45.9	44.58	41	120524-2	15	84	120527-2
	44.4	45.9	44.58	41	120523-2	13	84	120527-2
	44.4	45.9	44.58	41	120603-2	10	84	120527-2
	44.4	45.9	44.58	41	120521-2	12	84	120527-1
	34.4	35.9	34.58	31	120524-1	15	64	120527-1
	34.4	35.9	34.58	31	120523-1	13	64	120527-1
	34.4	35.9	34.58	31	120603-1	10	64	120527-1
	34.4	35.9	34.58	31	120521-1	12	64	120527-1

Title Block

AMP Incorporated
Harrisburg, PA 17105-3608

NAME: PLUG ASSY, 1.0mm FH (IEEE 1386) CONNECTOR

PRODUCT SPEC: 502-1079
APPLICATION SPEC: 114-25045

CAGE CODE: 00779

DRAWING NO: C-120527

SIZE A1 | SCALE 0:1 | SHEET 2 of 2 | REV D

CUSTOMER DRAWING

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±
1 PLC ± 0.3
2 PLC ± 0.03
3 PLC ± 0.005
4 PLC
ANGLES