![TE connectivity]

My Cart | My Part Lists | Sign In/Register   **English** (Change)

Have a Question?
Chat with a Product
Information Specialist

What can we help you find?

| Products | Industries | Resources | About TE | My Account | Innovation | Support Center |

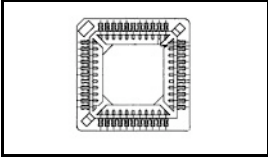# 822516-6 Product Details

Share   Print   Email

822516-6

TE Internal Number: 822516-6

⚠ Pending Obsolescence
Contact Product Information Center

📄 View 3D PDF

PLCC Sockets

🍃 Always EU RoHS/ELV Compliant

(Statement of Compliance)

Product Highlights:
- Socket Type = Low Profile
- 84 Positions
- 1.27 mm Centerline
- Normal Insertion Force
- Surface Mount Contact Termination Type

View all Features

Quick Links
- ▷ Pricing & Availability
- ▷ Search for Tooling
- ▷ Product Feature Selector
- ▷ Contact Us About This Product

Add to My Part List   Request Sample   Find Similar Products

Buy Product

Documentation & Additional Information

Product Drawings:
- PLCC SURFACE MOUNT LEAD FREE VERSION (PDF, English)

Catalog Pages/Data Sheets:
- None Available

Product Specifications:
- None Available

Application Specifications:
- None Available

Instruction Sheets:
- None Available

CAD Files: (CAD Format & Compression Information)
- 2D Drawing (DXF, Version A)
- 3D Model (IGES, Version A)
- 3D Model (STEP, Version A)

Additional Information:
- Product Line Information

Related Products:
- Tooling

List all Documents

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

Product Type Features:
- Insertion Force = Normal
- Polarizing Pin = Without

Termination Features:
- Contact Termination Type = Surface Mount

Dimensions:
- Height Above PC Board (mm [in]) = 4.60 [0.181]

Contact Features:
- Socket Type = Low Profile
- Contact Base Material = Phosphor Bronze
- Contact Plating, Mating Area, Material = Tin

Housing Features:
- Centerline (mm [in]) = 1.27 [0.050]
- Housing Material = Thermoplastic - GF

Configuration Features:
- Number of Positions = 84

Industry Standards:
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Reflow solder capable to 245°C, Reflow solder capable to 260°C
- RoHS/ELV Compliance History = Always was RoHS compliant
- UL Flammability Rating = UL 94V-0

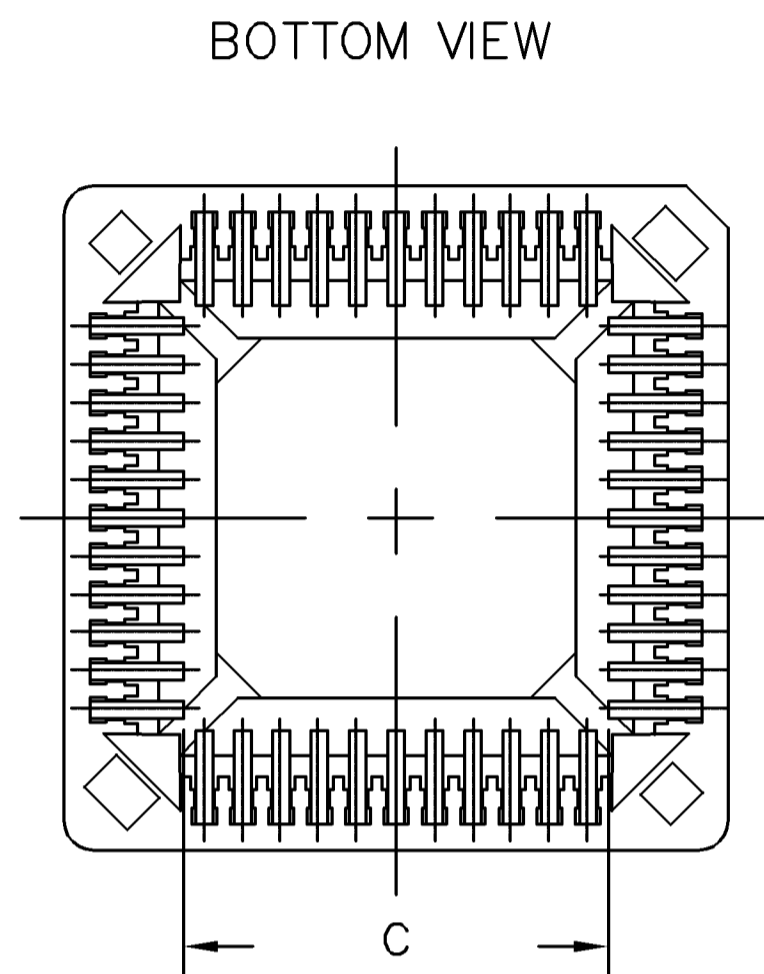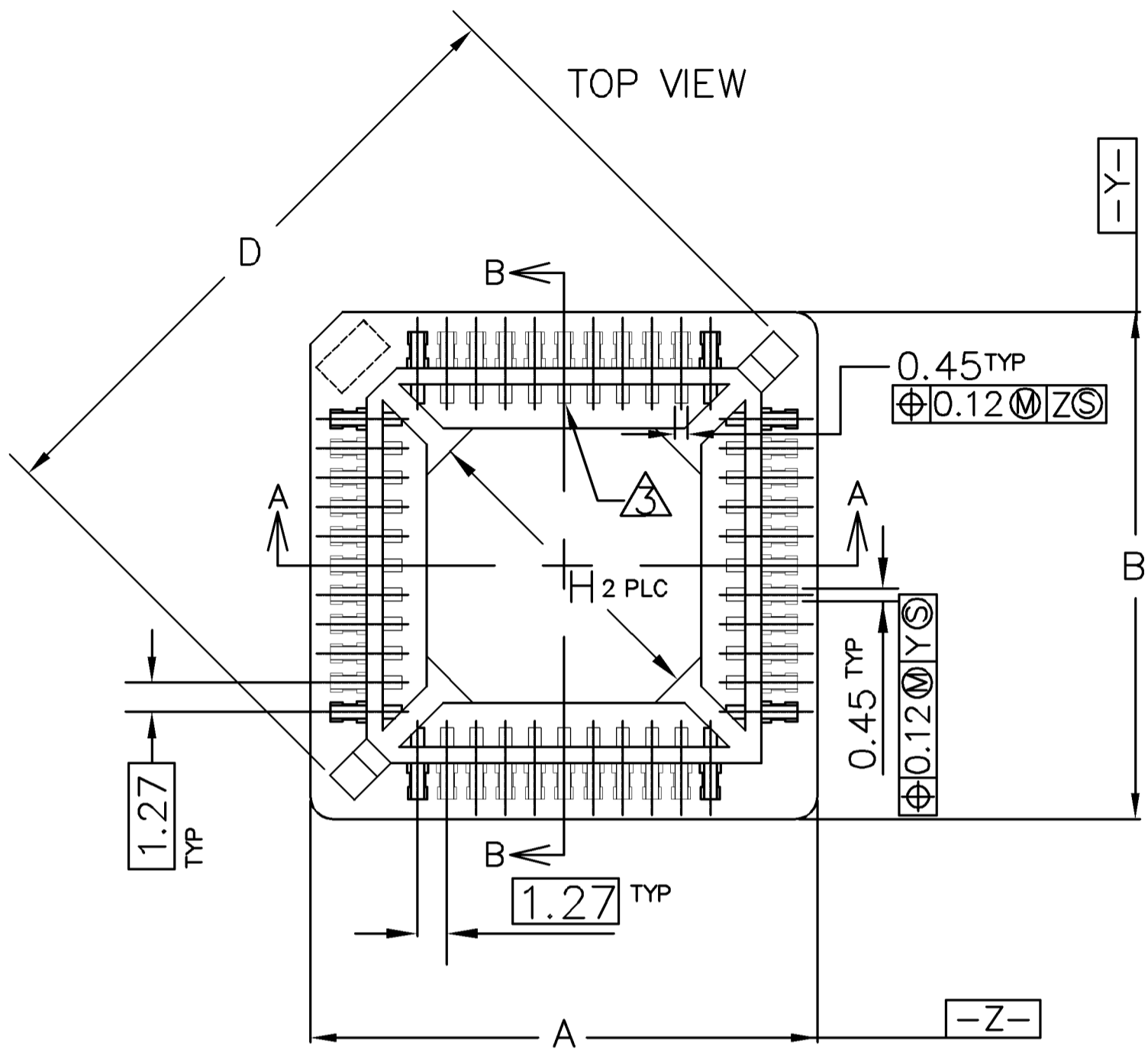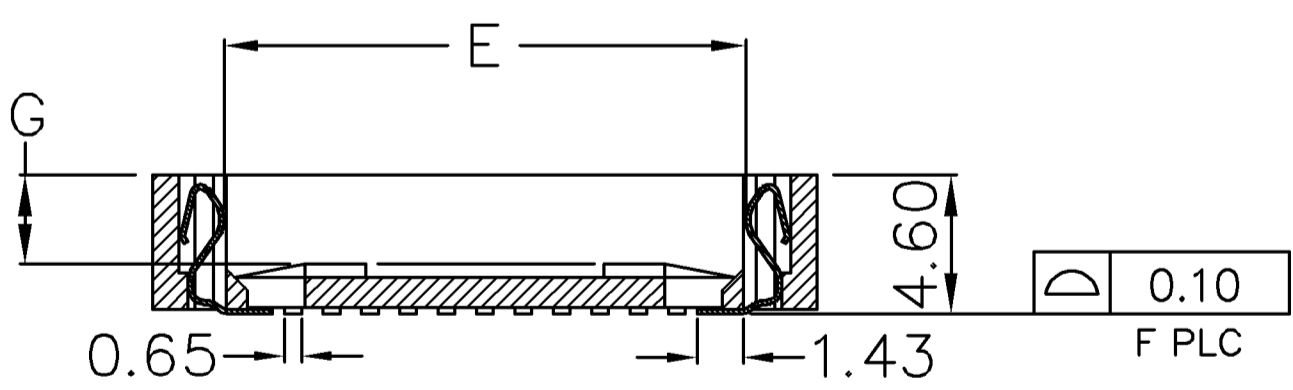**Packaging Features:**
- Packaging Method = Tube

Other:
- Brand = AMP

LOC DW | DIST —

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	A2	REVISED (ECR-11-006020)	23MAR11	JL	WK

TOP VIEW

BOTTOM VIEW

0.45 TYP
⌖ 0.12 Ⓜ Z Ⓢ

B

A

0.45 TYP
⌖ 0.12 Ⓜ Y Ⓢ

3

2 PLC

1.27 TYP

1.27 TYP

A

C

-Y-
-Z-

SECTION A-A
SECTION B-B

44 POSITION SHOWN

E
G
4.60
0.65
1.43
F PLC
⏥ 0.10

△ 0.10 D

△1 MATERIAL:
HOUSING--HIGH TEMPERATURE THERMOPLASTIC, UL94V-0,
COLOR: BROWN.
CONTACT--PHOSPHOR BRONZE.

△2 CONTACT FINISH: PLATE 0.00254 MIN. MATTE TIN OVER
0.00127 MIN. NICKEL ; ALL OVER.

△3 PIN #1. TRIANGULAR IDENTIFIER 0.03 MAX RAISED ON FLOOR.

△4 VIA HOLES NOT RECOMMENDED WITHIN SOCKET SHADOW AREA.

5. CURRENT RATING: 1 AMP.
6. VOLTAGE RATING: 250V.
7. CONTACT RESISTANCE: 20 MILLIOHMS, MAXIMUM.
8. INSULATION RESISTANCE: 5,000 MEGOHMS, MINIMUM, INITIAL.
9. DIELECTRIC WITHSTANDING VOLTAGE: 600 VAC RMS, MINIMUM.
10. OPERATING TEMPERATURE: -55 TO +105 C.
11. DURABILITY: 25 CYCLES.
12. PLCC DEVICE MUST CONFORM TO JEDEC MS-018 (SQ.) OR
MS-016 (RECT.)
13. RESISTANCE TO SOLDERING HEAT: 260C MAXIMUM FOR 30
SECONDS MAXIMUM.

△14 FOR 32 POS: SECTION A-A, E = 11.90
SECTION B-B, E = 14.45

15. EXTRACTION TOOL: 822476-1

H	G	F	E	D	C	B	A	Part Status	Packaging	AMP P/N
8.74	2.60	32	△14	21.89	9.25	19.57	16.90	ACTIVE	Tape	3-822516-7
8.74	2.60	32	△14	21.89	9.25	19.57	16.90	ACTIVE	Tubes	822516-7
32.14	2.90	84	29.69	45.20	27.03	35.90	35.90	ACTIVE	Tape	3-822516-6
32.14	2.90	84	29.69	45.20	27.03	35.90	35.90	ACTIVE	Tubes	822516-6
24.83	2.90	68	24.61	37.98	21.95	30.82	30.82	ACTIVE	Tape	3-822516-5
24.83	2.90	68	24.61	37.98	21.95	30.82	30.82	ACTIVE	Tubes	822516-5
17.52	2.75	52	19.53	30.78	16.87	25.74	25.74	ACTIVE	Tape	3-822516-4
17.52	2.75	52	19.53	30.78	16.87	25.74	25.74	ACTIVE	Tubes	822516-4
4.04	2.75	20	9.36	16.38	6.71	14.36	14.36	ACTIVE	Tape	3-822516-3
4.04	2.75	20	9.36	16.38	6.71	14.36	14.36	ACTIVE	Tubes	822516-3
7.55	2.75	28	11.90	20.00	9.25	16.90	16.90	ACTIVE	Tape	3-822516-2
7.55	2.75	28	11.90	20.00	9.25	16.90	16.90	ACTIVE	Tubes	822516-2
14.16	2.95	44	16.99	27.20	14.33	22.00	22.00	ACTIVE	Tape	3-822516-1
14.16	2.95	44	16.99	27.20	14.33	22.00	22.00	ACTIVE	Tubes	822516-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN K.KREIDLER 18MAY2001
CHK K.KREIDLER 18MAY2001
APVD K.KREIDLER 18MAY2001

DIMENSIONS:
MM

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± -
1 PLC ± -
2 PLC ± 0.2
3 PLC ± -
4 PLC ± -
ANGLES ± -

PRODUCT SPEC
108-57858

APPLICATION SPEC
—

MATERIAL
SEE NOTE
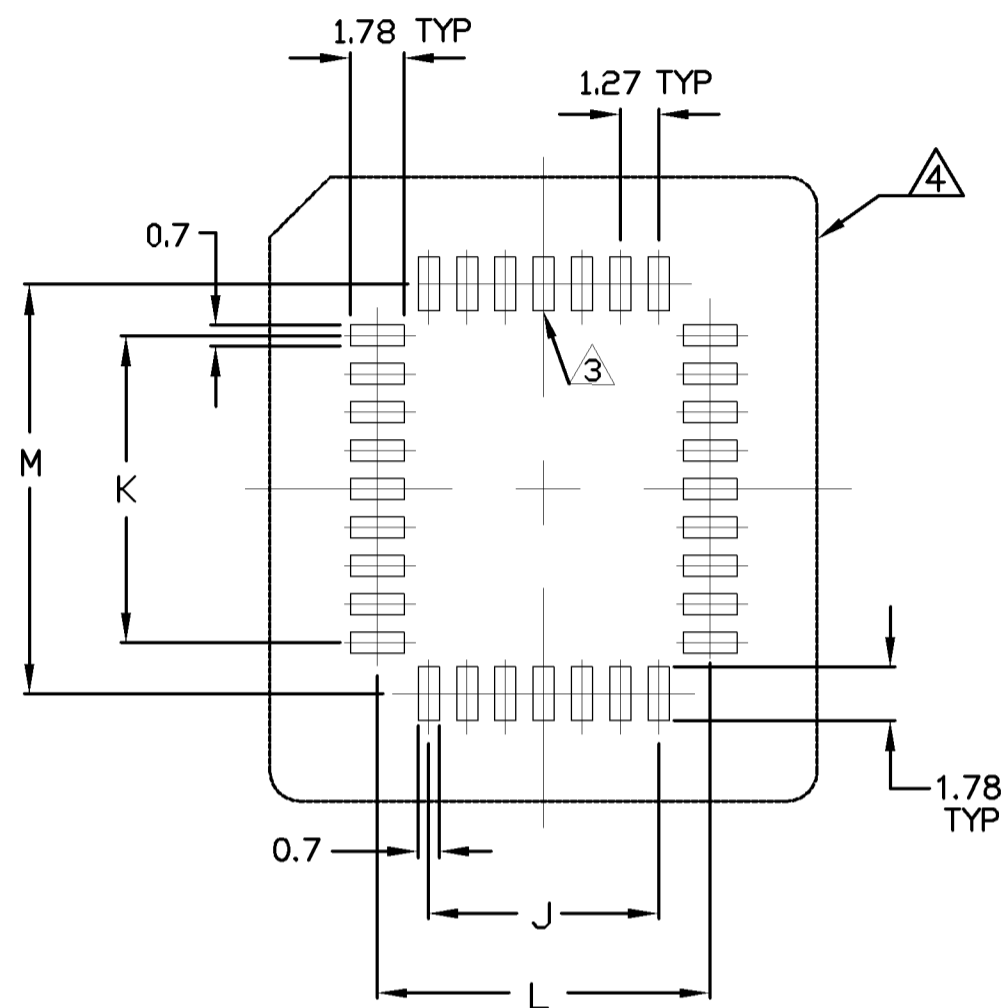
FINISH
SEE NOTE

WEIGHT —

TE Connectivity

NAME
PLCC SURFACE MOUNT
LEAD FREE VERSION

SIZE A3 | CAGE CODE 00779 | DRAWING NO Ⓒ-822516 | RESTRICTED TO —

CUSTOMER DRAWING

SCALE — | SHEET 1 OF 2 | REV A2

RELEASED FOR PUBLICATION   AUG 2006

LOC DW | DIST —

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1.			

1.78 TYP

1.27 TYP

0.7

M

K

J

L

0.7

1.78 TYP

RECOMMENDED PCB FOOTPRINT

NO. OF POSITIONS	J	K	L	M
84	25.40	25.40	28.80	28.80
68	20.32	20.32	23.72	23.72
52	15.24	15.24	18.64	18.64
44	12.70	12.70	16.10	16.10
32	7.62	10.16	11.02	13.56
28	7.62	7.62	11.02	11.02
20	5.08	5.08	8.48	8.48

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN

CHK

DIMENSIONS: MM
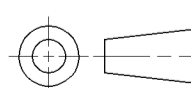
TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC	± —
1 PLC	± —
2 PLC	± —
3 PLC	± —
4 PLC	± —
ANGLES	± —

APVD

PRODUCT SPEC —

APPLICATION SPEC —

MATERIAL —

FINISH —

WEIGHT —

≡TE   TE Connectivity

NAME

**PLCC SURFACE MOUNT
LEAD FREE VERSION**

| SIZE A3 | CAGE CODE 00779 | DRAWING NO C-822516 | RESTRICTED TO — |

CUSTOMER DRAWING

SCALE —

SHEET 2 OF 2

REV A2

AMP 1470-19 REV 31MAR2000