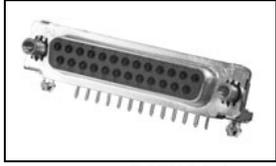# 747844-6 Product Details

747844-6

TE Internal Number: 747844-6

Active

Standard Board Mount Connectors

Not EU RoHS or ELV Compliant (Find RoHS Compliant Alternates)

Product Highlights:
- 9 Positions
- Connector Style = Receptacle
- PCB Mounting Orientation = Right Angle
- Product Series = HD 20
- With Mating Connector Lock

Documentation & Additional Information

Product Drawings:
- RECEPTACLE ASSEMBLY, SIZE 1, RIGHT ANGLE, .318 SERIE... (PDF, English)

Catalog Pages/Data Sheets:
- None Available

Product Specifications:
- AMPLIMITE HD-20 PCB Mounted Connector (PDF, English)

Application Specifications:
- AMPLIMITE Right-Angle Front Metal Shell Connectors (PDF, English)

Instruction Sheets:
- None Available

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

Additional Information:
- Product Line Information

Additional Product Images:
- Product Photo

Related Products:
- Tooling
- Mating Products (8)

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

Product Type Features:
- PCB Mounting Orientation = Right Angle
- Product Series = HD 20
- Mating Connector Lock = With
- Mating Connector Lock Type = Female Screwlocks, Fixed
- PCB Mount Retention = With
- PCB Mount Retention Type = Boardlock(s)
- Shell Type = Front Metal Shell
- Shell Size = 1
- Footprint (mm [in]) = 8.08 [.318]
- Grounding Indents = Without
- Grounding Straps = With
- PCB Mount Style = Through Hole
- Color Code = None
- Sealed = No
- Profile = Standard
- Post Size (mm [in]) = 0.66 [.026]
- Mounting Hole Diameter (mm [in]) = 3.18 [.125]
- Shell Material = Steel
- Eyelet Material = Brass

Mechanical Attachment:
- Panel Mount Retention = Without
- Boardlock Material = Copper Alloy
- Boardlock Plating = Tin-Lead

Termination Features:
- Grounding Clips = Without
- Termination Post Length (mm [in]) = 3.18 [0.125]
- Solder Tail Contact Plating = Tin-Lead over Nickel

Dimensions:
- PCB Thickness, Recommended (in [mm]) = 0.062 [1.57]

Body Features:
- Shell Plating = Tin
- Female Screwlock Material = Zinc
- Female Screwlock Plating = Clear Chromate
- Eyelet Plating = Tin

Contact Features:
- Contact Plating, Mating Area, Material = Gold (30)
- Contact Shape = Round
- Contact Base Material = Phosphor Bronze

Housing Features:
- Connector Style = Receptacle
- UL Flammability Rating = UL 94V-0
- Housing Material = Thermoplastic - GF
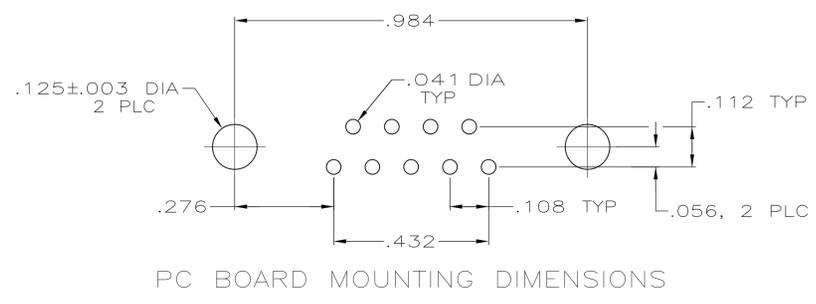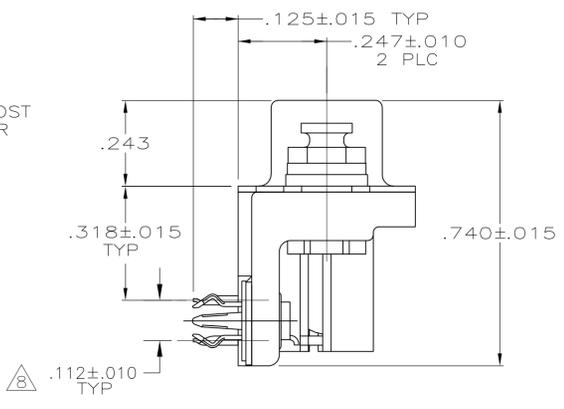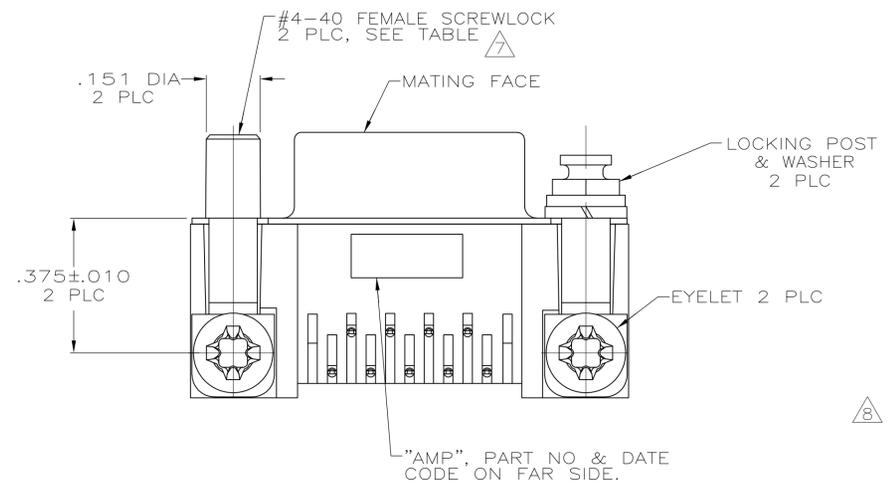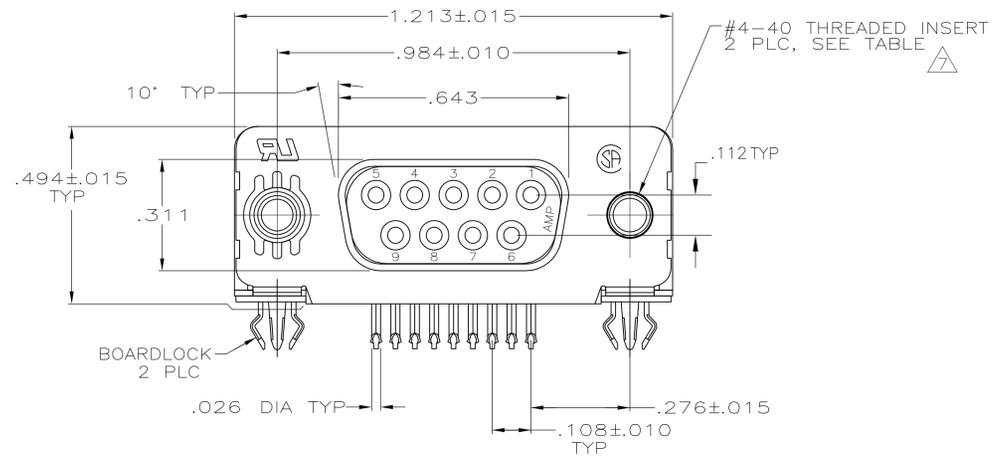
Configuration Features:
- Number of Positions = 9

Industry Standards:
- RoHS/ELV Compliance = Not ELV/RoHS compliant
- Lead Free Solder Processes = Wave solder capable to 240°C, Wave solder capable to 260°C, Wave solder capable to 265°C

Other:
- Brand = AMP
- Comment = All receptacles are preloaded with size 20 DF posted socket contacts

REVISIONS

LOC	DIST						
GP	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
			U2	REVISED PER ECO-11-004835	11MAR11	RK	HMR

1. CONNECTOR MATES WITH ANY 9 POSN PLUG IN AMPLIMITE™ SERIES.

/2\ MOLDED PARTS: FLAME RETARDANT 94V-0 RATED THERMOPLASTIC, BLACK.
SHELL: STEEL PER ASTM A109
CONTACTS: PHOSPHOR BRONZE PER QQ-B-750
EYELETS: BRASS
SCREWLOCKS: ZINC
INSERTS: ZINC
BOARDLOCKS: COPPER ALLOY

/3\ SHELL: .000100 MIN TIN OR TIN-LEAD
CONTACTS: SEE TABLE
EYELETS: TIN
SCREWLOCKS: CLEAR CHROMATE
BOARDLOCKS: SEE TABLE
INSERTS: CLEAR CHROMATE

/4\ GOLD PLATING PER MIL-G-45204, NICKEL PLATING PER QQ-N-290,
TIN PLATING PER MIL-T-10727.

/5\ GOLD FLASH FOR A DISTANCE OF .100 MIN FROM MATING END,
.000100-.000200 BRIGHT TIN OR BRIGHT TIN-LEAD ON TERMINATION
END, ALL OVER .000050 NICKEL ON ENTIRE CONTACT.

/6\ .000030 GOLD FOR A DISTANCE OF .100 MIN FROM MATING END,
.000100-.000200 BRIGHT TIN OR BRIGHT TIN-LEAD ON TERMINATION
END, ALL OVER .000050 NICKEL ON ENTIRE CONTACT.

/7\ SCREWLOCKS & INSERTS WILL WITHSTAND 4 IN LBS TORQUE & 20 LBS
PULL OUT FORCE FROM MATING FACE SIDE.

/8\ DIMENSION APPLIES TO CENTER LINE OF CONTACTS.

/9\ OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

1.213±.015
.984±.010
.643
10° TYP
.494±.015 TYP
.311
#4-40 THREADED INSERT 2 PLC, SEE TABLE /7\
.112 TYP
BOARDLOCK 2 PLC
.026 DIA TYP
.108±.010 TYP
.276±.015

#4-40 FEMALE SCREWLOCK 2 PLC, SEE TABLE /7\
.151 DIA 2 PLC
MATING FACE
LOCKING POST & WASHER 2 PLC
.375±.010 2 PLC
EYELET 2 PLC
"AMP", PART NO & DATE CODE ON FAR SIDE.

.125±.015 TYP
.247±.010 2 PLC
.243
.318±.015 TYP
.740±.015
/8\ .112±.010 TYP

.984
.125±.003 DIA 2 PLC
.041 DIA TYP
.112 TYP
.276
.108 TYP
.056, 2 PLC
.432

PC BOARD MOUNTING DIMENSIONS

	PACKAGING	MOUNTING HARDWARE	BOARDLOCK FINISH	CONTACT FINISH /4\	PART NUMBER
	–	FEMALE SCREWLOCKS	TIN	/6\	7-747844-1
	–	FEMALE SCREWLOCKS	TIN	/5\	7-747844-0
	TRAY	THREADED INSERTS	TIN	/6\	6-747844-9
	–	THREADED INSERTS	TIN	/5\	6-747844-8
/9\ OBSOLETE	–	.125 DIA HOLES	TIN	/5\	6-747844-7
SUPSD BY 747844-4	TUBE	THREADED INSERTS	TIN-LEAD	/6\	747844-8
SUPSD BY 747844-4	–	INSERT/LOCKING POST & WASHERS	TIN-LEAD	/6\	747844-7
	–	FEMALE SCREWLOCKS	TIN-LEAD	/6\	747844-6
	–	FEMALE SCREWLOCKS	TIN-LEAD	/5\	747844-5
	TRAY	THREADED INSERTS	TIN-LEAD	/6\	747844-4
	–	THREADED INSERTS	TIN-LEAD	/5\	747844-3
	–	.125 DIA HOLES	TIN-LEAD	/6\	747844-2
SUPSD BY 747844-2	–	.125 DIA HOLES	TIN-LEAD	/5\	747844-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN	J. GALLUCCI BG	28 JAN 91
CHK	W.G. LENKER	15 APR 91
APVD	J. YOUNG	15 APR 91

DIMENSIONS: INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± –
2 PLC ± –
3 PLC ± .005
4 PLC ± –
ANGLES 2° ± –

═TE TE Connectivity

NAME
RECEPTACLE ASSEMBLY, SIZE 1, RIGHT ANGLE, .318 SERIES, FRONT METAL SHELL, .026 DIA POSTS, BOARDLOCKS, AMPLIMITE™ HD-20

PRODUCT SPEC 108-40025
APPLICATION SPEC 114-40010

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-747844	–

MATERIAL /2\   FINISH /3\   WEIGHT –

CUSTOMER DRAWING

SCALE 4:1   SHEET 1 OF 1   REV U2