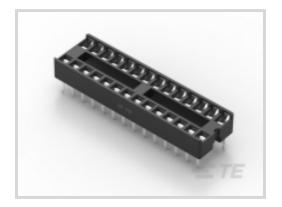
1-2199298-9 - ACTIVE

DIPLOMATE TE Internal #: 1-2199298-9 DIP Sockets, Stamped & Formed, 28 Position, Low Profile, Straight, Tin, -40 – 105 °C [-40 – 221 °F]

#### View on TE.com >



Connectors > Socket Connectors > IC Sockets > DIP Sockets > DIP Socket: Low Profile, Stamped & Formed, Open, Tin



Contact Fabrication: Stamped & Formed

Number of Positions: 28

Connector Profile: Low

Row-to-Row Spacing: 7.62 mm [.3 in]

Leg Style: Straight

All DIP Socket: Low Profile, Stamped & Formed, Open, Tin (6)

#### Features

#### Product Type Features

Leg Style

Connector & Contact Terminates To

Straight

Printed Circuit Board

#### **Configuration Features**

Number of Rows	2
Number of Rows	2
PCB Mount Orientation	Vertical
Number of Positions	28
Electrical Characteristics	
Insulation Resistance	1000 MΩ
Contact Resistance	20 mΩ
Body Features	
Sleeve Material	Brass/Copper
Sleeve Plating Material	Tin/Lead
Frame Style	Ladder
Connector Profile	Low
Contact Features	
Mating Contact Type	Dual Leaf

### 1-2199298-9

DIP Sockets, Stamped & Formed, 28 Position, Low Profile, Straight, Tin, -40 – 105 °C [-40 – 221 °F]



Consult TypePirsPCB Contact Termination Area Plating MaterialTinContact Base MaterialPhosphor BrenzeContact FabricationStamped & FormedContact FabricationStamped & FormedContact FabricationStamped & FormedContact FabricationNational Area Plating MaterialContact Current Rating (Max)1 ATermination Features3 inTermination Method to Printed Circuit BoardThrough Hole - SolderMating AlignmentWithConnect Mouting TypePolarizationMating AlignmentWithContact Mouting TypeBoard MountHousing FeaturesInHousing ColorBlackContact LengthS.1 mm[.2 in]Profile Height from PCB5.1 mm[.2 in]Product Lengthy.42 mm[.3 in]Very To Row Specingy.0 - 105 °C[-40 - 221 °T]OperationsInContact ApplicationSignalIndustry StandardsSignalIndustry StandardsSignalIndustry StandardsUL 94V-0Preckaging Features1Tubes per Rox2Prokaging Guantily12	IC Socket Type	DIP
Contact Rase MaterialPhosphor BronneContact FabricationStamped & FormedContact Mating Area Plating MaterialTinadupinadupinContact Current Rating (Max)1 ATermination Features3 inTermination Method to Printed Circuit BoardThrough Hole - SolderMating AlignmentVithContact Mating TypePalarizationMating AlignmentWithContact Mounting TypeBoard MountHousing ColorBiackContact Circuit BoardPEL GF30Mating AlignmentWithConnector Mounting TypeBoard MountHousing ColorBiackContact LengthS1 mmi 2 iniProduct LengthS1 mmi 2 iniProduct LengthS6 mmi 14 injRow-to-Row Spacing-40 – 105 °C(-40 – 221 °F[Operating Temperature Range-40 – 105 °C(-40 – 221 °F[Operating Temperature Ra	Contact Type	Pin
Contact Fabrication     Stamped & Formed       Contact Mating Area Plating Material     In       60 µin     60 µin       Contact Current Rating (Max)     1 A       Termination Features     3 in       Termination Features     9 µin       Mechanical Attachment     Ploragition       Mating Alignment Type     Polarization       Mating Alignment Type     Beard Mount       Housing Features     10       Profile Alegin from PCB     254 mm[,1 in]       Profile Height from PCB     5.1 mm[2 in]       Profile Height from PCB     5.1 mm[2 in]       Row to Row Spacing     2.62 mm[,1 in]       Operating Temperature Range     40 105 °C[ 40 221 °F]       Operating Temperature Range     40 105 °C[ 40 221 °F]       Operating Temperature Range     40 105 °C[ 40 221 °F]       Operating Temperature Range     40 105 °C[ 40 221 °F]       Operating Temperature Range     40 105 °C[ 40 221 °F]       Operating Temperature Range     40 105 °C[ 40 221 °F]       Operating Temperature Range     40 105 °C[ 40 221 °F]       Operating Temperature Range     40 105 °C[ 40 221 °F]       Operating	PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material     60 µin       Contact Current Rating (Max)     1 A       Termination Features     3 in       Termination Method to Printed Circuit Board     Through Hole Solder       Mechanical Attachment     With       Mating Alignment Type     Polarization       Mating Alignment Type     Polarization       Mating Alignment Type     Board Mount       Connector Mounting Type     Board Mount       Housing Features     10       Plousing Material     PBT GF30       Housing Colon     Black       Context Length     3.5.6 mm[1.1 in]       Polarization     2.54 mm[1.2 in]       Product Length     3.5.6 mm[1.2 in]       Row-to-Row Spacing     2.42 mm[3 in]       Vage Conditions     2.42 mm[3 in]       Operating Lempersture Range     40 – 10.5 °C[-40 – 221 °F]       Operating Lempersture Range     40 – 10.5 °C[-40 – 221 °F]       Operating Lempersture Range     10 – 10.5 °C[-40 – 221 °F]       Operating Lempersture Range     10 – 10.5 °C[-40 – 221 °F]       Operating Lempersture Range     10 – 10.5 °C[-40 – 221 °F]       Operation/Application <td>Contact Base Material</td> <td>Phosphor Bronze</td>	Contact Base Material	Phosphor Bronze
A Depin       Contact Current Rating (Max)     1 A       Termination Features     3 in       Termination Method to Printed Circuit Board     Through Hole - Solder       Mechanical Attachment     Through Hole - Solder       Mating Alignment Type     Polarization       Mating Alignment Type     Polarization       Mating Alignment Type     Polarization       Mating Alignment Type     Board Mount       Connector Mounting Type     Board Mount       Housing Celor     Black       Contect (Pitch)     2.54 mm[.1 in]       Dimensions     Profile Height from PCB       Product Length     35.56 mm[1.4 in]       Row-to-Row Spacing     .40 = n05 "C[-40 = 221 "T]       Operation/Application     Signal       Circuit Application     Signal       Ituaty Standards     UL Parmability Rating       UL Flammability Rating     UL PaV 0       Packaging Features     Itubes per Box	Contact Fabrication	Stamped & Formed
Contact Current Rating (Max) 1 A   Termination Features 3 in   Termination Method to Printed Circuit Board Ihrough Hole - Solder   Mechanical Attachment Mating Alignment Type   Mating Alignment Type Polarization   Mating Alignment Type Board Mount   Connector Mounting Type Board Mount   Housing Features Back   Housing Color Black   Connector Mounting Type Black   Polarization S.56 mm[1 in]   Phousing Color S.1 mm[2 in]   Profile Height from PCB S.1 mm[2 in]   Product Length S.56 mm[1 4 in]   Row-to-Row Spacing 7.62 mm[3 in]   Usage Conditions U   Circuit Application Signal   Industry Standards U   UI Flammability Rating U 94V-0   Packaging Featuree Z	Contact Mating Area Plating Material	Tin
Termination Features   3 in     Termination Method to Printed Circuit Board   Through Hole - Solder     Mechanical Attachment   Mating Alignment Type     Mating Alignment Type   Polarization     Mating Alignment Que   Board Mount     Connector Mounting Type   Board Mount     Housing Features   PBT CF30     Housing Color   Black     Centerline (Pitch)   2.54 mm[.1 in]     Dimensions   S.1 mm[.2 in]     Product Length   3.5.56 mm[1.4 in]     Rew-to-Row Spacing   7.62 mm[.3 in]     Usage Conditions   Joparating Temperature Range     Querating Temperature Range   40 – 105 °C[.40 – 221 °F]     Circuit Application   Signal     Industry Standards   UL Hammability Rating     UL Hammability Rating   UL 94V-0     Packaging Features   Jobes re Rox     Tubes per Box   2		60 µin
3 in   Termination Method to Printed Circuit Board Through Hole - Solder   Mechanical Attachment Mating Alignment Type   Mating Alignment Type Polarization   Mating Alignment Type Polarization   Connector Mounting Type Roard Mount   Housing Features Back   Housing Color Black   Centerline (Pitch) 2.54 mm[.1 in]   Dimensions S.1 mm[.2 in]   Product Length 35.56 mm[.4 in]   Row to Row Spacing 7.69 mm[.3 in]   Usage Conditions Joperating Temperature Range   Querating Temperature Range -10 - 105 °C[.40 - 221 °F]   Operating Temperature Range Jog and   Ut Flammability Rating Ut P44v-0   Ut Flammability Rating Ut 94v-0   Packaging Features Z	Contact Current Rating (Max)	1 A
Termination Method to Printed Circuit Board   Through Hole - Solder     Mechanical Attachment   Polarization     Mating Alignment Type   Polarization     Mating Alignment Type   Board Mount     Connector Mounting Type   Board Mount     Housing Features   Iteration     Housing Material   PBT GF30     Housing Color   Black     Certerline (Pitch)   2.54 mm[.1 in]     Dimensions   S.1 mm[2 in]     Produet Length   5.1 mm[2 in]     Produet Length   35.56 mm[1.4 in]     Row-to-Row Spacing   7.42 mm[.3 in]     Usage Conditions   Iteration     Circuit Application   Signal     Idustry Standards   UL Planmability Rating     UL Flammability Rating   UL Planmability Rating     Packaging Features   Zumers     Tubes per Box   2	Termination Features	
Mechanical Attachment   Polarization     Mating Alignment Type   Polarization     Mating Alignment   With     Connector Mounting Type   Board Mount     Housing Features   PBT GF30     Housing Material   PBT GF30     Housing Color   Black     Centerline (Pitch)   2.54 mm[.1 in]     Dimensions   S.1 mm[.2 in]     Product Length   5.1 mm[.2 in]     Product Length   35.56 mm[1.4 in]     Row-to-Row Spacing   7.62 mm[.3 in]     Usage Conditions   Vorter Section     Circuit Application   Signal     Lustry Standards   UL Planmability Rating     UL Flammability Rating   UL 94V-0     Packaging Features   Zubes per Box		3 in
Mating Alignment TypePolarizationMating AlignmentWithConnector Mounting TypeBoard MountHousing FeaturesHousing MaterialHousing MaterialPBT GF30Housing ColorBlackCenterline (Pitch)2.54 mm[.1 in]DimensionsS.1 mm[.2 in]Profile Height from PCB5.1 mm[.2 in]Product Length35.56 mm[1.4 in]Row-to-Row Spacing	Termination Method to Printed Circuit Board	Through Hole - Solder
Mating AlignmentWithConnector Mounting TypeBoard MountHousing FeaturesPBT GF30Housing MaterialPBT GF30Housing ColorBlackCenterline (Pitch)2.54 mm[.1 in]DimensionsS.1 mm[.2 in]Profile Height from PCBS.1 mm[.2 in]Product Length35.56 mm[1.4 in]Row-to-Row Spacing7.62 mm[.3 in]Usage ConditionsJune 2019Operating Temperature Range-40 - 105 °C[-40 - 221 °F]Operating Temperature RangeUL PaylogUL Flammability RatingUL 94V 0Packaging FeaturesJune 2019Tubes per Box2	Mechanical Attachment	
Connector Mounting TypeBoard MountHousing FeaturesHousing MaterialPBT GF30Housing ColorBlackCenterline (Pitch)2.54 mm[.1 in]DimensionsProfile Height from PCB5.1 mm[.2 in]Product Length35.56 mm[1.4 in]Row-to-Row Spacing7.62 mm[.3 in]Usage ConditionsOperation Temperature Range- 40 – 105 °C[-40 – 221 °F]Operation/ApplicationCircuit ApplicationSignalUL Plammability RatingUL Flammability RatingUL 94V-0Prokaging FeaturesTubes per Box2	Mating Alignment Type	Polarization
Housing FeaturesHousing MaterialPBT GF30Housing ColorBlackCenterline (Pitch)2.54 mm[.1 in]Centerline (Pitch)5.1 mm[.2 in]Profile Height from PCB5.1 mm[.2 in]Product Length35.56 mm[1.4 in]Row-to-Row Spacing7.62 mm[.3 in]Usage Conditions	Mating Alignment	With
Housing MaterialPBT GF30Housing ColorBlackCenterline (Pitch)2.54 mm[.1 in]DimensionsDimensionProfile Height from PCB5.1 mm[.2 in]Product Length35.56 mm[1.4 in]Row-to-Row Spacing7.62 mm[.3 in]Usage ConditionsUOperating Temperature Range40 – 105 °C[-40 – 221 °F]Operation/ApplicationSignalIndustry StandardsUL flammability RatingUL Flammability RatingUL 94V-0Tubes per Box2	Connector Mounting Type	Board Mount
Housing ColorBlackHousing ColorStamm[1 in]Centerline (Pitch)2.54 mm[1 in]DimensionsStamm[2 in]Profile Height from PCB5.1 mm[2 in]Product Length35.56 mm[1.4 in]Row-to-Row Spacing7.62 mm[3 in]Usage Conditions-40 – 105 °C[-40 – 221 °F]Operating Temperature Range-40 – 105 °C[-40 – 221 °F]Operation/ApplicationSignalIndustry StandardsUL Flammability RatingUL Flammability RatingUL 94V-0Packaging Features2	Housing Features	
Centerline (Pitch)2.54 mm[.1 in]DimensionsProfile Height from PCB5.1 mm[.2 in]Product Length35.56 mm[1.4 in]Row-to-Row Spacing7.62 mm[.3 in]Usage ConditionsOperating Temperature Range-40 – 105 °C[-40 – 221 °F]Operation/ApplicationCircuit ApplicationSignalUL Flammability RatingUL Flammability RatingUL Plave Box2	Housing Material	PBT GF30
Pirofile Height from PCB   5.1 mm[.2 in]     Product Length   35.56 mm[1.4 in]     Row-to-Row Spacing   7.62 mm[.3 in]     Vage Conditions   -     Operating Temperature Range   -40 – 105 °C[-40 – 221 °F]     Operation/Application   Signal     Icircuit Application   Signal     UL Flammability Rating   UL 94V-0     Packaging Features   Z     Tubes per Box   2	Housing Color	Black
Profile Height from PCB5.1 mm[.2 in]Product Length35.56 mm[1.4 in]Row-to-Row Spacing7.62 mm[.3 in]Usage ConditionsOperating Temperature Range-40 – 105 °C[-40 – 221 °F]Operation/ApplicationCircuit ApplicationSignalIdustry StandardsUL Flammability RatingUL Planmability RatingUL Planmability Rating2Tubes per Box2	Centerline (Pitch)	2.54 mm[.1 in]
Product Length35.56 mm[1.4 in]Row-to-Row Spacing7.62 mm[3 in]Usage ConditionsOperating Temperature Range-40 – 105 °C[-40 – 221 °F]Operation/Application-40 – 105 °C[-40 – 221 °F]Circuit ApplicationSignalIcrcuit ApplicationSignalUL Flammability RatingUL 94V-0Packaging Features	Dimensions	
Row-to-Row Spacing7.62 mm[.3 in]Usage Conditions-40 – 105 °C[-40 – 221 °F]Operating Temperature Range-40 – 105 °C[-40 – 221 °F]Operation/ApplicationSignalCircuit ApplicationSignalIndustry StandardsUL Flammability RatingUL Flammability RatingUL 94V-0Packaging Features2	Profile Height from PCB	5.1 mm[.2 in]
Usage Conditions     Operating Temperature Range   -40 - 105 °C[-40 - 221 °F]     Operation/Application   Signal     I circuit Application   Signal     Industry Standards   UL 94V-0     VL Flammability Rating   UL 94V-0     Packaging Features   Industry Standards     Tubes per Box   2	Product Length	35.56 mm[1.4 in]
Operating Temperature Range-40 - 105 °C[-40 - 221 °F]Operation/ApplicationSignalCircuit ApplicationSignalIndustry StandardsUL Planmability RatingUL Flammability RatingUL 94V-0Packaging FeaturesITubes per Box2	Row-to-Row Spacing	7.62 mm[.3 in]
Operation/Application   Signal     Circuit Application   Signal     Industry Standards   UL Flammability Rating     VL Flammability Rating   UL 94V-0     Packaging Features   Implication     Tubes per Box   2	Usage Conditions	
Circuit ApplicationSignalIndustry StandardsUL Flammability RatingUL 94V-0Packaging FeaturesImplicationImplicationTubes per Box21	Operating Temperature Range	-40 - 105 °C[-40 - 221 °F]
Industry Standards     UL Flammability Rating   UL 94V-0     Packaging Features     Tubes per Box   2	Operation/Application	
UL Flammability RatingUL 94V-0Packaging Features2	Circuit Application	Signal
Packaging Features   Tubes per Box   2	Industry Standards	
Tubes per Box 2	UL Flammability Rating	UL 94V-0
	Packaging Features	
Packaging Quantity 17	Tubes per Box	2
	Packaging Quantity	17

#### 1-2199298-9

DIP Sockets, Stamped & Formed, 28 Position, Low Profile, Straight, Tin, -40 – 105 °C [-40 – 221 °F]



Packaging Method	Box & Tube, Tube
Other	
Quantity per Tube	1700
<b>Product Compliance</b> For compliance documentation, visit the product page on TE.com>	
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Out of Scope
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 240°C

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge

based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach

## **Compatible Parts**



# Customers Also Bought

#### 1-2199298-9

DIP Sockets, Stamped & Formed, 28 Position, Low Profile, Straight, Tin, -40 – 105 °C [-40 – 221 °F]





### Documents

Product Drawings 28P,DIP SKT,300 CL,LDR,PB FREE

English

CAD Files

3D PDF

3D

Customer View Model ENG\_CVM\_CVM\_1-2199298-9\_A.2d\_dxf.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_1-2199298-9\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-2199298-9\_A.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

Datasheets & Catalog Pages DIP Sockets Quick Reference Guide (EN)

English