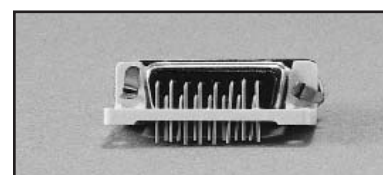
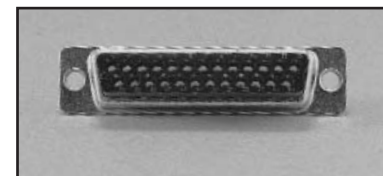
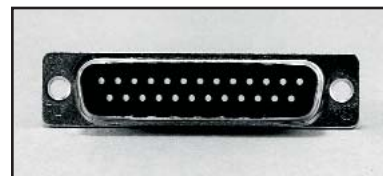


# D-subminiature Metal Shell Crimp and Poke, Right-Angle and Vertical PCB D\*U Series



|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FEATURES      | <ul style="list-style-type: none"> <li>■ Offered in 9, 15, 25, 37, and 50 position plugs and sockets (except right-angle PCB connectors- 9, 15, and 25 positions).</li> <li>■ Available with gold flash or 30µin. gold plating.</li> <li>■ Offered with .120 mounting holes, optional 4-40 clinch nuts, or dual float bushings (except right-angle PCB connectors-mounting holes only).</li> <li>■ Approvals: <ul style="list-style-type: none"> <li>• UL Recognized - Files E170218 (UL1977) and E130965 (UL1863).</li> <li>• CSA Approved - File LR31996.</li> </ul> </li> <li>■ See pages 4-5 thru 4-10 for standard dimensions, contact arrangements, and panel mounting specifications.</li> </ul> |
| MATERIALS     | <p><b>Insulator Material:</b> Glass-filled nylon (black), UL 94 V-O rated</p> <p><b>Connector Shell:</b> Steel with zinc plating and yellow chromate finish or tin plating (grounding indents on plug)</p> <p><b>4-40 Clinch Nut:</b> Steel with cadmium plating and yellow chromate finish</p> <p><b>Dual Float Bushing:</b> Stainless steel, passivated</p>                                                                                                                                                                                                                                                                                                                                           |
| ENVIRONMENTAL | <p><b>Operating Temperature:</b> -65°C to + 125°C</p> <p><b>Shock:</b> 50G peak per MIL-STD-202, Method 213, Condition G</p> <p><b>Vibration:</b> 12 cycles in three perpendicular directions @ 10-2000Hz, per MIL-STD-202, Method 204, Condition D</p> <p><b>Moisture Resistance:</b> 90-95% relative humidity @ 40°C for 96 hours per MIL-STD-202, Method 103</p>                                                                                                                                                                                                                                                                                                                                     |
| ELECTRICAL    | <p><b>Withstanding Voltage:</b> Minimum 1000V RMS @ sea level</p> <p><b>Current Rating:</b> 5 Amps</p> <p><b>Contact Resistance:</b> 2.7 milliohms maximum</p> <p><b>Insulation Resistance:</b> 5000 megohms maximum (initial); 1000 megohms (minimum) after environmental testing</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |
| MECHANICAL    | <p><b>Individual Contact Insertion and Separation Force (minimum/maximum):</b> 0.7 oz./12 oz.</p> <p><b>Durability:</b> 500 mating cycles</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



# **D-subminiature Metal Shell Crimp and Poke D\*U Series**

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- Machined contacts supplied loose with connector or can be ordered separately. Use with 20-24 AWG wire.
- Stamped Contacts (order separately) for use when ordering connector with contacts not included (-FO option). Use with 20-28 AWG wire.
  - Available in 10K reel.
  - Order reels of stamped contacts separately.

## **Materials**

- Contact Material: Plug - Brass (stamped) or copper alloy (machined). Socket - Phosphor bronze (stamped) or copper alloy (machined).
- Contact Plating:
  - Stamped Plugs and Sockets: Gold flash or 30µin. gold and gold flash on the remainder. All over nickel.
  - Machined Plugs and Sockets: Gold flash or 30µin. gold. All over nickel.

## **Termination Tooling**

- Semi-Automatic Stripper Crimper for Stamped Contacts on 10K PC reels: #ESC-20-3. See page 4-102.
- Contact Insertion/Extraction: #CIET-20-HDB. See page 4-101.
- Loose Contact Crimp Tool:

Machined Contact - #M22520/2-01. See page 4-103.

For Positioner as required see page 4-103.

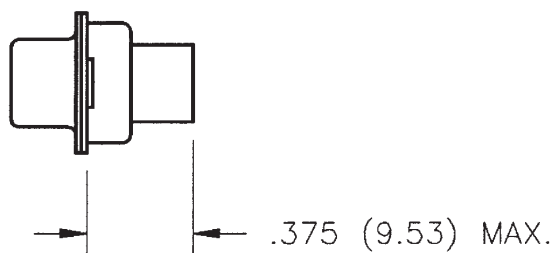
Stamped Contacts #BT-20-HC see page 4-101.

No positioner required.

# D-subminiature Metal Shell

## Crimp and Poke

### D\*U Series



#### Ordering Information

#### D\*U Crimp and Poke Plugs

#### Zinc-Plated Shell with Yellow Chromate Finish

| Position | Mounting Holes    |                  | 4-40 Clinch Nuts  |                  | Dual Float Bushings |                  |
|----------|-------------------|------------------|-------------------|------------------|---------------------|------------------|
|          | Contacts Included | Without Contacts | Contacts Included | Without Contacts | Contacts Included   | Without Contacts |
| 9        | DEU-9P            | DEU-9P-FO        | DEUE-9-P          | DEUE-9P-FO       | DEUY-9P             | DEUY-9P-FO       |
| 15       | DAU-15P           | DAU-15P-FO       | DAUE-15-P         | DAUE-15-P-FO     | DAUY-15P            | DAUY-15P-FO      |
| 25       | DBU-25P           | DBU-25P-FO       | DBUE-25-P         | DBUE-25P-FO      | DBUY-25P            | DBUY-25P-FO      |
| 37       | DCU-37P           | DCU-37P-FO       | DCUE-37-P         | DCUE-37P-FO      | DCUY-37P            | DCUY-37P-FO      |
| 50       | DDU-50P           | DDU-50P-FO       | DDUE-50-P         | DDUE-50P-FO      | DDUY-50P            | DDUY-50P-FO      |

#### Tin-Plated Shell with Grounding Indents

| Position | Mounting Holes    |                  | 4-40 Clinch Nuts  |                  | Dual Float Bushings |                  |
|----------|-------------------|------------------|-------------------|------------------|---------------------|------------------|
|          | Contacts Included | Without Contacts | Contacts Included | Without Contacts | Contacts Included   | Without Contacts |
| 9        | DEU-9PTI          | DEU-9PTI-FO      | DEUE-9PTI         | DEUE-9PTI-FO     | DEUY-9PTI           | DEUY-9PTI-FO     |
| 15       | DAU-15PTI         | DAU-15PTI-FO     | DAUE-15PTI        | DAUE-15PTI-FO    | DAUY-15PTI          | DAUY-15PTI-FO    |
| 25       | DBU-25PTI         | DBU-25PTI-FO     | DBUE-25PTI        | DBUE-25PTI-FO    | DBUY-25PTI          | DBUY-25PTI-FO    |
| 37       | DCU-37PTI         | DCU-37PTI-FO     | DCUE-37PTI        | DCUE-37PTI-FO    | DCUY-37PTI          | DCUY-37PTI-FO    |
| 50       | DDU-50PTI         | DDU-50PTI-FO     | DDUE-50PTI        | DDUE-50PTI-FO    | DDUY-50PTI          | DDUY-50PTI-FO    |

#### D\*U Crimp and Poke Sockets

#### Zinc-Plated Shell with Yellow Chromate Finish

| Position | Mounting Holes    |                  | 4-40 Clinch Nuts  |                  | Dual Float Bushings |                  |
|----------|-------------------|------------------|-------------------|------------------|---------------------|------------------|
|          | Contacts Included | Without Contacts | Contacts Included | Without Contacts | Contacts Included   | Without Contacts |
| 9        | DEU-9S            | DEU-9S-FO        | DEUE-9S           | DEUE-9S-FO       | DEUY-9S             | DEUY-9S-FO       |
| 15       | DAU-15S           | DAU-15S-FO       | DAUE-15S          | DAUE-15S-FO      | DAUY-15S            | DAUY-15S-FO      |
| 25       | DBU-25S           | DBU-25S-FO       | DBUE-25S          | DBUE-25S-FO      | DBUY-25S            | DBUY-25S-FO      |
| 37       | DCU-37S           | DCU-37S-FO       | DCUE-37S          | DCUE-37S-FO      | DCUY-37S            | DCUY-37S-FO      |
| 50       | DDU-50S           | DDU-50S-FO       | DDUE-50S          | DDUE-50S-FO      | DDUY-50S            | DDUY-50S-FO      |

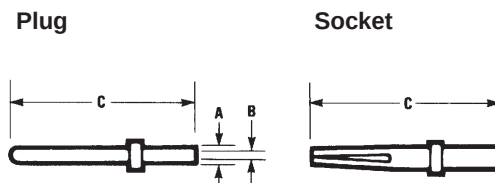
#### Tin-Plated Shell

| Position | Mounting Holes    |                  | 4-40 Clinch Nuts  |                  | Dual Float Bushings |                  |
|----------|-------------------|------------------|-------------------|------------------|---------------------|------------------|
|          | Contacts Included | Without Contacts | Contacts Included | Without Contacts | Contacts Included   | Without Contacts |
| 9        | DEU-9ST           | DEU-9ST-FO       | DEUE-9ST          | DEUE-9ST-FO      | DEUY-9ST            | DEUY-9ST-FO      |
| 15       | DAU-15ST          | DAU-15ST-FO      | DAUE-15ST         | DAUE-15ST-FO     | DAUY-15ST           | DAUY-15ST-FO     |
| 25       | DBU-25ST          | DBU-25ST-FO      | DBUE-25ST         | DBUE-25ST-FO     | DBUY-25ST           | DBUY-25ST-FO     |
| 37       | DCU-37ST          | DCU-37ST-FO      | DCUE-37ST         | DCUE-37ST-FO     | DCUY-37ST           | DCUY-37ST-FO     |
| 50       | DDU-50ST          | DDU-50ST-FO      | DDUE-50ST         | DDUE-50ST-FO     | DDUY-50ST           | DDUY-50ST-FO     |

# D-subminiature Metal Shell Crimp and Poke Contacts D\*U Series



## Machined Contacts • 20-24 AWG Wire



### Dimensions

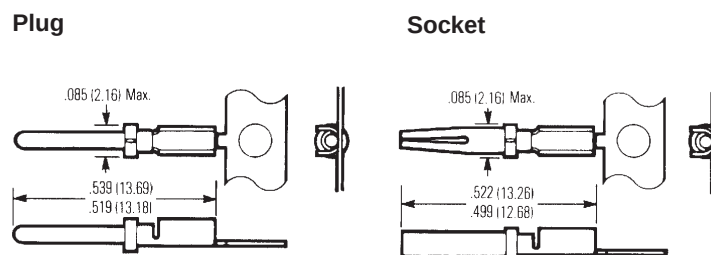
| Description | Wire<br>AWG | A    |      | B    |      | C Max. |       |
|-------------|-------------|------|------|------|------|--------|-------|
|             |             | in   | mm   | in   | mm   | in     | mm    |
| Pin         | #20, 22, 24 | .066 | 1.67 | .045 | 1.14 | .537   | 13.64 |
| Socket      | #20, 22, 24 | .066 | 1.67 | .045 | 1.14 | .523   | 13.28 |

### Ordering Information

#### D\*U Series Loose-Piece Machined Contacts

|        | Gold Flash   | 30µin. Gold  |
|--------|--------------|--------------|
| Pin    | 030-1952-000 | 030-1952-030 |
| Socket | 030-1953-000 | 030-1953-030 |

## Stamped Contacts • 20-28 AWG Wire



### Ordering Information

#### D\*U Series Stamped Contacts on 10K Reels

|        | Gold Flash   | 30µin. Gold |
|--------|--------------|-------------|
| Pin    | BCL-1964-20P | D110238-034 |
| Socket | BCL-1963-20S | D110238-035 |

# D-subminiature Metal Shell Solder Cup, Vertical PCB Mount, and Wire Wrap Basic D Series



|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FEATURES      | <ul style="list-style-type: none"> <li>■ Offered in Wire Wrap and Solder Cup styles for wire termination and vertical style for PCB mount.</li> <li>■ Offered with .120 mounting holes, 4-40 clinch nuts, and dual float bushings.</li> <li>■ Offered in 9, 15, 25, 37, and 50 position plugs and sockets.</li> <li>■ Available with gold flash or 30pin. gold plating.</li> <li>■ Approvals: <ul style="list-style-type: none"> <li>• UL Recognized - Files E170218 (UL1977) and E130965 (UL1863).</li> <li>• CSA Approved - File LR31996.</li> </ul> </li> <li>■ See pages 4-5 thru 4-10 for standard dimensions, contact arrangements, and panel mounting specifications.</li> </ul> |
| MATERIALS     | <p><b>Insulator Material:</b> Glass-filled polyester (white), UL 94V-O rated</p> <p><b>Connector Shell:</b> Steel with zinc plating and yellow chromate finish or tin plating (grounding indents on plug)</p> <p><b>4-40 Clinch Nut:</b> Steel with cadmium plating and yellow chromate finish</p> <p><b>Dual Float Bushing:</b> Stainless steel, passivated</p>                                                                                                                                                                                                                                                                                                                        |
| ENVIRONMENTAL | <p><b>Operating Temperature:</b> -65°C to + 125°C</p> <p><b>Shock:</b> 50G peak per MIL-STD-202, Method 213, Condition G</p> <p><b>Vibration:</b> 12 cycles in three perpendicular directions @ 10-2000Hz, per MIL-STD-202, Method 204, Condition D</p> <p><b>Moisture Resistance:</b> 90-95% relative humidity @ 40°C for 96 hours per MIL-STD-202, Method 103</p>                                                                                                                                                                                                                                                                                                                     |
| ELECTRICAL    | <p><b>Withstanding Voltage:</b> Minimum 1250V RMS @ sea level</p> <p><b>Current Rating:</b> 5 Amps</p> <p><b>Contact Resistance:</b> 2.7 milliohms maximum</p> <p><b>Insulation Resistance:</b> 5000 megohms maximum (initial); 1000 megohms (minimum) after environmental testing</p>                                                                                                                                                                                                                                                                                                                                                                                                  |
| MECHANICAL    | <p><b>Individual Contact Insertion and Separation Force (minimum/maximum):</b> 0.7 oz./12 oz.</p> <p><b>Durability:</b> 500 mating cycles</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



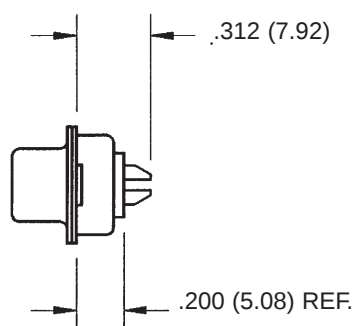
# D-subminiature Metal Shell Solder Cup Basic D Series



- Available with stamped or machined contacts.
- Will accommodate up to 20 AWG wire.

## Materials

- Contact Material: Copper Alloy
- Contact Plating:
  - Stamped contacts with gold flash or 30µin. gold in mating area, gold flash or tin/lead on remainder. All over nickel.
  - Screw machine contacts with gold flash or 30µin. gold. All over nickel.



## Ordering Information

### Solder Cup Plugs

#### Zinc-Plated Shell with Yellow Chromate Finish

##### Stamped Contact with Gold Flash in Solder Cup

| Positions | Mounting Holes |             | 4-40 Clinch Nuts |             | Dual Float Bushings |             |
|-----------|----------------|-------------|------------------|-------------|---------------------|-------------|
|           | Gold Flash     | 30µin. Gold | Gold Flash       | 30µin. Gold | Gold Flash          | 30µin. Gold |
| 9         | DE-9P          | DE-9P-30    | DEE-9P           | DEE-9P-30   | DEY-9P              | DEY-9P-30   |
| 15        | DA-15P         | DA-15P-30   | DAE-15P          | DAE-15P-30  | DAY-15P             | DAY-15P-30  |
| 25        | DB-25P         | DB-25P-30   | DBE-25P          | DBE-25P-30  | DBY-25P             | DBY-25P-30  |
| 37        | DC-37P         | DC-37P-30   | DCE-37P          | DCE-37P-30  | DCY-37P             | DCY-37P-30  |
| 50        | DD-50P         | DD-50P-30   | DDE-50P          | DDE-50P-30  | DDY-50P             | DDY-50P-30  |

##### Stamped Contact with Tin/Lead in Solder Cup

| Positions | Mounting Holes |              | 4-40 Clinch Nuts |               | Dual Float Bushings |               |
|-----------|----------------|--------------|------------------|---------------|---------------------|---------------|
|           | Gold Flash     | 30µin. Gold  | Gold Flash       | 30µin. Gold   | Gold Flash          | 30µin. Gold   |
| 9         | DE-9P-II       | DE-9P-II-30  | DEE-9P-II        | DEE-9P-II-30  | DEY-9P-II           | DEY-9P-II-30  |
| 15        | DA-15P-II      | DA-15P-II-30 | DAE-15P-II       | DAE-15P-II-30 | DAY-15P-II          | DAY-15P-II-30 |
| 25        | DB-25P-II      | DB-25P-II-30 | DBE-25P-II       | DBE-25P-II-30 | DBY-25P-II          | DBY-25P-II-30 |
| 37        | DC-37P-II      | DC-37P-II-30 | DCE-37P-II       | DCE-37P-II-30 | DCY-37P-II          | DCY-37P-II-30 |
| 50        | DD-50P-II      | DD-50P-II-30 | DDE-50P-II       | DDE-50P-II-30 | DDY-50P-II          | DDY-50P-II-30 |

##### Screw Machine Contact

| Positions | Mounting Holes |              | 4-40 Clinch Nuts |               | Dual Float Bushings |               |
|-----------|----------------|--------------|------------------|---------------|---------------------|---------------|
|           | Gold Flash     | 30µin. Gold  | Gold Flash       | 30µin. Gold   | Gold Flash          | 30µin. Gold   |
| 9         | DE-9P-SM       | DE-9P-SM-30  | DEE-9P-SM        | DEE-9P-SM-30  | DEY-9P-SM           | DEY-9P-SM-30  |
| 15        | DA-15P-SM      | DA-15P-SM-30 | DAE-15P-SM       | DAE-15P-SM-30 | DAY-15P-SM          | DAY-15P-SM-30 |
| 25        | DB-25P-SM      | DB-25P-SM-30 | DBE-25P-SM       | DBE-25P-SM-30 | DBY-25P-SM          | DBY-25P-SM-30 |
| 37        | DC-37P-SM      | DC-37P-SM-30 | DCE-37P-SM       | DCE-37P-SM-30 | DCY-37P-SM          | DCY-37P-SM-30 |
| 50        | DD-50P-SM      | DD-50P-SM-30 | DDE-50P-SM       | DDE-50P-SM-30 | DDY-50P-SM          | DDY-50P-SM-30 |

# D-subminiature Metal Shell Solder Cup Basic D Series



## Ordering Information

### Solder Cup Plugs (Cont'd)

#### Tin-Plated Shell with Grounding Indents

##### Stamped Contact with Gold Flash in Solder Cup

| Positions | Mounting Holes |             | 4-40 Clinch Nuts |              | Dual Float Bushings |              |
|-----------|----------------|-------------|------------------|--------------|---------------------|--------------|
|           | Gold Flash     | 30µin. Gold | Gold Flash       | 30µin. Gold  | Gold Flash          | 30µin. Gold  |
| 9         | DE-9PTI        | DE-9PTI-30  | DEE-9PTI         | DEE-9PTI-30  | DEY-9PTI            | DEY-9PTI-30  |
| 15        | DA-15PTI       | DA-15PTI-30 | DAE-15PTI        | DAE-15PTI-30 | DAY-15PTI           | DAY-15PTI-30 |
| 25        | DB-25PTI       | DB-25PTI-30 | DBE-25PTI        | DBE-25PTI-30 | DBY-25PTI           | DBY-25PTI-30 |
| 37        | DC-37PTI       | DC-37PTI-30 | DCE-37PTI        | DCE-37PTI-30 | DCY-37PTI           | DCY-37PTI-30 |
| 50        | DD-50PTI       | DD-50PTI-30 | DDE-50PTI        | DDE-50PTI-30 | DDY-50PTI           | DDY-50PTI-30 |

##### Stamped Contact with Tin/Lead in Solder Cup

| Positions | Mounting Holes |                | 4-40 Clinch Nuts |                 | Dual Float Bushings |                 |
|-----------|----------------|----------------|------------------|-----------------|---------------------|-----------------|
|           | Gold Flash     | 30µin. Gold    | Gold Flash       | 30µin. Gold     | Gold Flash          | 30µin. Gold     |
| 9         | DE-9PTI-II     | DE-9PTI-II-30  | DEE-9PTI-II      | DEE-9PTI-II-30  | DEY-9PTI-II         | DEY-9PTI-II-30  |
| 15        | DA-15PTI-II    | DA-15PTI-II-30 | DAE-15PTI-II     | DAE-15PTI-II-30 | DAY-15PTI-II        | DAY-15PTI-II-30 |
| 25        | DB-25PTI-II    | DB-25PTI-II-30 | DBE-25PTI-II     | DBE-25PTI-II-30 | DBY-25PTI-II        | DBY-25PTI-II-30 |
| 37        | DC-37PTI-II    | DC-37PTI-II-30 | DCE-37PTI-II     | DCE-37PTI-II-30 | DCY-37PTI-II        | DCY-37PTI-II-30 |
| 50        | DD-50PTI-II    | DD-50PTI-II-30 | DDE-50PTI-II     | DDE-50PTI-II-30 | DDY-50PTI-II        | DDY-50PTI-II-30 |

##### Screw Machine Contact

| Positions | Mounting Holes |                | 4-40 Clinch Nuts |                 | Dual Float Bushings |                 |
|-----------|----------------|----------------|------------------|-----------------|---------------------|-----------------|
|           | Gold Flash     | 30µin. Gold    | Gold Flash       | 30µin. Gold     | Gold Flash          | 30µin. Gold     |
| 9         | DE-9PTI-SM     | DE-9PTI-SM-30  | DEE-9PTI-SM      | DEE-9PTI-SM-30  | DEY-9PTI-SM         | DEY-9PTI-SM-30  |
| 15        | DA-15PTI-SM    | DA-15PTI-SM-30 | DAE-15PTI-SM     | DAE-15PTI-SM-30 | DAY-15PTI-SM        | DAY-15PTI-SM-30 |
| 25        | DB-25PTI-SM    | DB-25PTI-SM-30 | DBE-25PTI-SM     | DBE-25PTI-SM-30 | DBY-25PTI-SM        | DBY-25PTI-SM-30 |
| 37        | DC-37PTI-SM    | DC-37PTI-SM-30 | DCE-37PTI-SM     | DCE-37PTI-SM-30 | DCY-37PTI-SM        | DCY-37PTI-SM-30 |
| 50        | DD-50PTI-SM    | DD-50PTI-SM-30 | DDE-50PTI-SM     | DDE-50PTI-SM-30 | DDY-50PTI-SM        | DDY-50PTI-SM-30 |

# D-subminiature Metal Shell

## Solder Cup

### Basic D Series



#### Ordering Information

#### Solder Cup Sockets

#### Zinc-Plated Shell with Yellow Chromate Finish

#### Stamped Contact with Gold Flash in Solder Cup

| Positions | Mounting Holes |             | 4-40 Clinch Nuts |             | Dual Float Bushings |             |
|-----------|----------------|-------------|------------------|-------------|---------------------|-------------|
|           | Gold Flash     | 30pin. Gold | Gold Flash       | 30pin. Gold | Gold Flash          | 30pin. Gold |
| 9         | DE-9S          | DE-9S-30    | DEE-9S           | DEE-9S-30   | DEY-9S              | DEY-9S-30   |
| 15        | DA-15S         | DA-15S-30   | DAE-15S          | DAE-15S-30  | DAY-15S             | DAY-15S-30  |
| 25        | DB-25S         | DB-25S-30   | DBE-25S          | DBE-25S-30  | DBY-25S             | DBY-25S-30  |
| 37        | DC-37S         | DC-37S-30   | DCE-37S          | DCE-37S-30  | DCY-37S             | DCY-37S-30  |
| 50        | DD-50S         | DD-50S-30   | DDE-50S          | DDE-50S-30  | DDY-50S             | DDY-50S-30  |

#### Stamped Contact Tin/Lead in Solder Cup

| Positions | Mounting Holes |              | 4-40 Clinch Nuts |               | Dual Float Bushings |               |
|-----------|----------------|--------------|------------------|---------------|---------------------|---------------|
|           | Gold Flash     | 30pin. Gold  | Gold Flash       | 30pin. Gold   | Gold Flash          | 30pin. Gold   |
| 9         | DE-9S-II       | DE-9S-II-30  | DEE-9S-II        | DEE-9S-II-30  | DEY-9S-II           | DEY-9S-II-30  |
| 15        | DA-15S-II      | DA-15S-II-30 | DAE-15S-II       | DAE-15S-II-30 | DAY-15S-II          | DAY-15S-II-30 |
| 25        | DB-25S-II      | DB-25S-II-30 | DBE-25S-II       | DBE-25S-II-30 | DBY-25S-II          | DBY-25S-II-30 |
| 37        | DC-37S-II      | DC-37S-II-30 | DCE-37S-II       | DCE-37S-II-30 | DCY-37S-II          | DCY-37S-II-30 |
| 50        | DD-50S-II      | DD-50S-II-30 | DDE-50S-II       | DDE-50S-II-30 | DDY-50S-II          | DDY-50S-II-30 |

#### Screw Machine Contact

| Positions | Mounting Holes |              | 4-40 Clinch Nuts |               | Dual Float Bushings |               |
|-----------|----------------|--------------|------------------|---------------|---------------------|---------------|
|           | Gold Flash     | 30pin. Gold  | Gold Flash       | 30pin. Gold   | Gold Flash          | 30pin. Gold   |
| 9         | DE-9S-SM       | DE-9S-SM-30  | DEE-9S-SM        | DEE-9S-SM-30  | DEY-9S-SM           | DEY-9S-SM-30  |
| 15        | DA-15S-SM      | DA-15S-SM-30 | DAE-15S-SM       | DAE-15S-SM-30 | DAY-15S-SM          | DAY-15S-SM-30 |
| 25        | DB-25S-SM      | DB-25S-SM-30 | DBE-25S-SM       | DBE-25S-SM-30 | DBY-25S-SM          | DBY-25S-SM-30 |
| 37        | DC-37S-SM      | DC-37S-SM-30 | DCE-37S-SM       | DCE-37S-SM-30 | DCY-37S-SM          | DCY-37S-SM-30 |
| 50        | DD-50S-SM      | DD-50S-SM-30 | DDE-50S-SM       | DDE-50S-SM-30 | DDY-50S-SM          | DDY-50S-SM-30 |

#### Tin-Plated Shell

#### Stamped Contact with Gold Flash in Solder Cup

| Positions | Mounting Holes |             | 4-40 Clinch Nuts |             | Dual Float Bushings |             |
|-----------|----------------|-------------|------------------|-------------|---------------------|-------------|
|           | Gold Flash     | 30pin. Gold | Gold Flash       | 30pin. Gold | Gold Flash          | 30pin. Gold |
| 9         | DE-9ST         | DE-9ST-30   | DEE-9ST          | DEE-9ST-30  | DEY-9ST             | DEY-9ST-30  |
| 15        | DA-15ST        | DA-15ST-30  | DAE-15ST         | DAE-15ST-30 | DAY-15ST            | DAY-15ST-30 |
| 25        | DB-25ST        | DB-25ST-30  | DBE-25ST         | DBE-25ST-30 | DBY-25ST            | DBY-25ST-30 |
| 37        | DC-37ST        | DC-37ST-30  | DCE-37ST         | DCE-37ST-30 | DCY-37ST            | DCY-37ST-30 |
| 50        | DD-50ST        | DD-50ST-30  | DDE-50ST         | DDE-50ST-30 | DDY-50ST            | DDY-50ST-30 |

#### Stamped Contact with Tin/Lead in Solder Cup

| Positions | Mounting Holes |               | 4-40 Clinch Nuts |                | Dual Float Bushings |                |
|-----------|----------------|---------------|------------------|----------------|---------------------|----------------|
|           | Gold Flash     | 30pin. Gold   | Gold Flash       | 30pin. Gold    | Gold Flash          | 30pin. Gold    |
| 9         | DE-9ST-II      | DE-9ST-II-30  | DEE-9ST-II       | DEE-9ST-II-30  | DEY-9ST-II          | DEY-9ST-II-30  |
| 15        | DA-15ST-II     | DA-15ST-II-30 | DAE-15ST-II      | DAE-15ST-II-30 | DAY-15ST-II         | DAY-15ST-II-30 |
| 25        | DB-25ST-II     | DB-25ST-II-30 | DBE-25ST-II      | DBE-25ST-II-30 | DBY-25ST-II         | DBY-25ST-II-30 |
| 37        | DC-37ST-II     | DC-37ST-II-30 | DCE-37ST-II      | DCE-37ST-II-30 | DCY-37ST-II         | DCY-37ST-II-30 |
| 50        | DD-50ST-II     | DD-50ST-II-30 | DDE-50ST-II      | DDE-50ST-II-30 | DDY-50ST-II         | DDY-50ST-II-30 |

#### Screw Machine Contact

| Positions | Mounting Holes |               | 4-40 Clinch Nuts |                | Dual Float Bushings |                |
|-----------|----------------|---------------|------------------|----------------|---------------------|----------------|
|           | Gold Flash     | 30pin. Gold   | Gold Flash       | 30pin. Gold    | Gold Flash          | 30pin. Gold    |
| 9         | DE-9ST-SM      | DE-9ST-SM-30  | DEE-9ST-SM       | DEE-9ST-SM-30  | DEY-9ST-SM          | DEY-9ST-SM-30  |
| 15        | DA-15ST-SM     | DA-15ST-SM-30 | DAE-15ST-SM      | DAE-15ST-SM-30 | DAY-15ST-SM         | DAY-15ST-SM-30 |
| 25        | DB-25ST-SM     | DB-25ST-SM-30 | DBE-25ST-SM      | DBE-25ST-SM-30 | DBY-25ST-SM         | DBY-25ST-SM-30 |
| 37        | DC-37ST-SM     | DC-37ST-SM-30 | DCE-37ST-SM      | DCE-37ST-SM-30 | DCY-37ST-SM         | DCY-37ST-SM-30 |
| 50        | DD-50ST-SM     | DD-50ST-SM-30 | DDE-50ST-SM      | DDE-50ST-SM-30 | DDY-50ST-SM         | DDY-50ST-SM-30 |

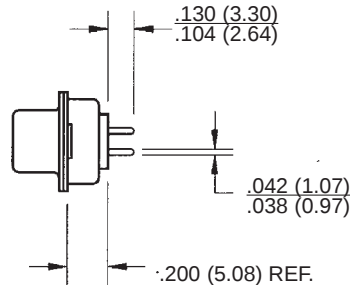
# D-subminiature Metal Shell Vertical Dip Solder PCB Basic D Series



- .040" contact diameter.
- Short rear insulator provides low profile on PCB.
- Offered with .120 mounting holes, dual float bushings, or optional 4-40 clinch nuts.

## Materials

- Contact Material: Socket - Phosphor bronze (machined), Plug - Brass (machined).
- Contact Plating: Gold flash or 30µin. gold over nickel.



## Ordering Information

### Vertical PCB Plugs

#### Zinc-Plated Shell with Yellow Chromate Finish

| Positions | Mounting Holes |             | 4-40 Clinch Nuts |             | Dual Float Bushings |             |
|-----------|----------------|-------------|------------------|-------------|---------------------|-------------|
|           | Gold Flash     | 30µin. Gold | Gold Flash       | 30µin. Gold | Gold Flash          | 30µin. Gold |
| 9         | DE-9PV         | DE-9PV-30   | DEE-9PV          | DEE-9PV-30  | DEY-9PV             | DEY-9PV-30  |
| 15        | DA-15PV        | DA-15PV-30  | DAE-15PV         | DAE-15PV-30 | DAY-15PV            | DAY-15PV-30 |
| 25        | DB-25PV        | DB-25PV-30  | DBE-25PV         | DBE-25PV-30 | DBY-25PV            | DBY-25PV-30 |
| 37        | DC-37PV        | DC-37PV-30  | DCE-37PV         | DCE-37PV-30 | DCY-37PV            | DCY-37PV-30 |
| 50        | DD-50PV        | DD-50PV-30  | DDE-50PV         | DDE-50PV-30 | DCY-50PV            | DDY-50PV-30 |

#### Tin-Plated Shell with Grounding Indents

| Positions | Mounting Holes |              | 4-40 Clinch Nuts |               | Dual Float Bushings |               |
|-----------|----------------|--------------|------------------|---------------|---------------------|---------------|
|           | Gold Flash     | 30µin. Gold  | Gold Flash       | 30µin. Gold   | Gold Flash          | 30µin. Gold   |
| 9         | DE-9PVTI       | DE-9PVTI-30  | DEE-9PVTI        | DEE-9PVTI-30  | DEY-9PVTI           | DEY-9PVTI-30  |
| 15        | DA-15PVTI      | DA-15PVTI-30 | DAE-15PVTI       | DAE-15PVTI-30 | DAY-15PVTI          | DAY-15PVTI-30 |
| 25        | DB-25PVTI      | DB-25PVTI-30 | DBE-25PVTI       | DBE-25PVTI-30 | DBY-25PVTI          | DBY-25PVTI-30 |
| 37        | DC-37PVTI      | DC-37PVTI-30 | DCE-37PVTI       | DCE-37PVTI-30 | DCY-37PVTI          | DCY-37PVTI-30 |
| 50        | DD-50PVTI      | DD-50PVTI-30 | DDE-50PVTI       | DDE-50PVTI-30 | DCY-50PVTI          | DDY-50PVTI-30 |

### Vertical PCB Sockets

#### Zinc-Plated Shell with Yellow Chromate Finish

| Positions | Mounting Holes |             | 4-40 Clinch Nuts |             | Dual Float Bushings |             |
|-----------|----------------|-------------|------------------|-------------|---------------------|-------------|
|           | Gold Flash     | 30µin. Gold | Gold Flash       | 30µin. Gold | Gold Flash          | 30µin. Gold |
| 9         | DE-9SV         | DE-9SV-30   | DEE-9SV          | DEE-9SV-30  | DEY-9SV             | DEY-9SV-30  |
| 15        | DA-15SV        | DA-15SV-30  | DAE-15SV         | DAE-15SV-30 | DAY-15SV            | DAY-15SV-30 |
| 25        | DB-25SV        | DB-25SV-30  | DBE-25SV         | DBE-25SV-30 | DBY-25SV            | DBY-25SV-30 |
| 37        | DC-37SV        | DC-37SV-30  | DCE-37SV         | DCE-37SV-30 | DCY-37SV            | DCY-37SV-30 |
| 50        | DD-50SV        | DD-50SV-30  | DDE-50SV         | DDE-50SV-30 | DCY-50SV            | DDY-50SV-30 |

#### Tin-Plated Shell

| Positions | Mounting Holes |             | 4-40 Clinch Nuts |              | Dual Float Bushings |              |
|-----------|----------------|-------------|------------------|--------------|---------------------|--------------|
|           | Gold Flash     | 30µin. Gold | Gold Flash       | 30µin. Gold  | Gold Flash          | 30µin. Gold  |
| 9         | DE-9SVT        | DE-9SVT-30  | DEE-9SVT         | DEE-9SVT-30  | DEY-9SVT            | DEY-9SVT-30  |
| 15        | DA-15SVT       | DA-15SVT-30 | DAE-15SVT        | DAE-15SVT-30 | DAY-15SVT           | DAY-15SVT-30 |
| 25        | DB-25SVT       | DB-25SVT-30 | DBE-25SVT        | DBE-25SVT-30 | DBY-25SVT           | DBY-25SVT-30 |
| 37        | DC-37SVT       | DC-37SVT-30 | DCE-37SVT        | DCE-37SVT-30 | DCY-37SVT           | DCY-37SVT-30 |
| 50        | DD-50SVT       | DD-50SVT-30 | DDE-50SVT        | DDE-50SVT-30 | DDY-50SVT           | DDY-50SVT-30 |

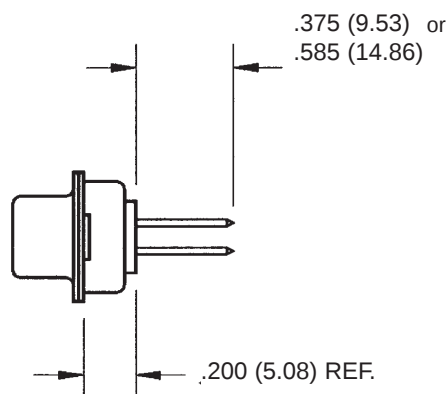
# D-subminiature Metal Shell Wire Wrap Basic D Series



- Reliable wire wrap termination.
- Two contact lengths: .375" or .585".
- .025" square contact tails.

## Materials

- Contact Material: Copper alloy (machined).
- Contact Plating: Gold flash or 30µin. gold. All over nickel.



## Ordering Information

### Wire Wrap Plugs

### .375" Tail Length

#### Zinc-Plated Shell with Yellow Chromate Finish

| Positions | Mounting Holes |                | 4-40 Clinch Nuts |                 | Dual Float Bushings |                 |
|-----------|----------------|----------------|------------------|-----------------|---------------------|-----------------|
|           | Gold Flash     | 30µin. Gold    | Gold Flash       | 30µin. Gold     | Gold Flash          | 30µin. Gold     |
| 9         | DE-9P-F179     | DE-9P-F179-30  | DEE-9P-F179      | DEE-9P-F179-30  | DEY-9P-F179         | DEY-9P-F179-30  |
| 15        | DA-15P-F179    | DA-15P-F179-30 | DAE-15P-F179     | DAE-15P-F179-30 | DAY-15P-F179        | DAY-15P-F179-30 |
| 25        | DB-25P-F179    | DB-25P-F179-30 | DBE-25P-F179     | DBE-25P-F179-30 | DBY-25P-F179        | DBY-25P-F179-30 |
| 37        | DC-37P-F179    | DC-37P-F179-30 | DCE-37P-F179     | DCE-37P-F179-30 | DCY-37P-F179        | DCY-37P-F179-30 |
| 50        | DD-50P-F179    | DD-50P-F179-30 | DDE-50P-F179     | DDE-50P-F179-30 | DDY-50P-F179        | DDY-50P-F179-30 |

#### Tin-Plated Shell with Grounding Indents

| Positions | Mounting Holes |                  | 4-40 Clinch Nuts |                   | Dual Float Bushings |                   |
|-----------|----------------|------------------|------------------|-------------------|---------------------|-------------------|
|           | Gold Flash     | 30µin. Gold      | Gold Flash       | 30µin. Gold       | Gold Flash          | 30µin. Gold       |
| 9         | DE-9PTI-F179   | DE-9PTI-F179-30  | DEE-9PTI-F179    | DEE-9PTI-F179-30  | DEY-9PTI-F179       | DEY-9PTI-F179-30  |
| 15        | DA-15PTI-F179  | DA-15PTI-F179-30 | DAE-15PTI-F179   | DAE-15PTI-F179-30 | DAY-15PTI-F179      | DAY-15PTI-F179-30 |
| 25        | DB-25PTI-F179  | DB-25PTI-F179-30 | DBE-25PTI-F179   | DBE-25PTI-F179-30 | DBY-25PTI-F179      | DBY-25PTI-F179-30 |
| 37        | DC-37PTI-F179  | DC-37PTI-F179-30 | DCE-37PTI-F179   | DCE-37PTI-F179-30 | DCY-37PTI-F179      | DCY-37PTI-F179-30 |
| 50        | DD-50PTI-F179  | DD-50PTI-F179-30 | DDE-50PTI-F179   | DDE-50PTI-F179-30 | DDY-50PTI-F179      | DDY-50PTI-F179-30 |

# D-subminiature Metal Shell

## Wire Wrap

### Basic D Series



#### Ordering Information

#### Wire Wrap Plugs (Cont'd)

#### .585" Tail Length

#### Zinc-Plated Shell with Yellow Chromate Finish

| Positions | Mounting Holes |                 | 4-40 Clinch Nuts |                  | Dual Float Bushings |                  |
|-----------|----------------|-----------------|------------------|------------------|---------------------|------------------|
|           | Gold Flash     | 30µin. Gold     | Gold Flash       | 30µin. Gold      | Gold Flash          | 30µin. Gold      |
| 9         | DE-9P-F179C    | DE-9P-F179C-30  | DEE-9P-F179C     | DEE-9PF-179C-30  | DEY-9P-F179C        | DEY-9P-F179C-30  |
| 15        | DA-15P-F179C   | DA-15P-F179C-30 | DAE-15P-F179C    | DAE-15PF-179C-30 | DAY-15P-F179C       | DAY-15P-F179C-30 |
| 25        | DB-25P-F179C   | DB-25P-F179C-30 | DBE-25P-F179C    | DBE-25PF-179C-30 | DBY-25P-F179C       | DBY-25P-F179C-30 |
| 37        | DC-37P-F179C   | DC-37P-F179C-30 | DCE-37P-F179C    | DCE-37PF-179C-30 | DCY-37P-F179C       | DCY-37P-F179C-30 |
| 50        | DD-50P-F179C   | DD-50P-F179C-30 | DDE-50P-F179C    | DDE-50PF-179C-30 | DDY-50P-F179C       | DDY-50P-F179C-30 |

#### Tin-Plated Shell with Grounding Indents

| Positions | Mounting Holes |                   | 4-40 Clinch Nuts |                    | Dual Float Bushings |                    |
|-----------|----------------|-------------------|------------------|--------------------|---------------------|--------------------|
|           | Gold Flash     | 30µin. Gold       | Gold Flash       | 30µin. Gold        | Gold Flash          | 30µin. Gold        |
| 9         | DE-9PTI-F179C  | DE-9PTI-F179C-30  | DEE-9PTI-F179C   | DEE-9PTI-F179C-30  | DEY-9PTI-F179C      | DEY-9PTI-F179C-30  |
| 15        | DA-15PTI-F179C | DA-15PTI-F179C-30 | DAE-15PTI-F179C  | DAE-15PTI-F179C-30 | DAY-15PTI-F179C     | DAY-15PTI-F179C-30 |
| 25        | DB-25PTI-F179C | DB-25PTI-F179C-30 | DBE-25PTI-F179C  | DBE-25PTI-F179C-30 | DBY-25PTI-F179C     | DBY-25PTI-F179C-30 |
| 37        | DC-37PTI-F179C | DC-37PTI-F179C-30 | DCE-37PTI-F179C  | DCE-37PTI-F179C-30 | DCY-37PTI-F179C     | DCY-37PTI-F179C-30 |
| 50        | DD-50PTI-F179C | DD-50PTI-F179C-30 | DDE-50PTI-F179C  | DDE-50PTI-F179C-30 | DDY-50PTI-F179C     | DDY-50PTI-F179C-30 |

# D-subminiature Metal Shell

## Wire Wrap

### Basic D Series



#### Ordering Information

#### Wire Wrap Sockets

#### .375" Tail Length

##### Zinc-Plated Shell with Yellow Chromate Finish

| Positions | Mounting Holes |                | 4-40 Clinch Nuts |                 | Dual Float Bushings |                 |
|-----------|----------------|----------------|------------------|-----------------|---------------------|-----------------|
|           | Gold Flash     | 30µin. Gold    | Gold Flash       | 30µin. Gold     | Gold Flash          | 30µin. Gold     |
| 9         | DE-9S-F179     | DE-9S-F179-30  | DEE-9S-F179      | DEE-9S-F179-30  | DEY-9S-F179         | DEY-9S-F179-30  |
| 15        | DA-15S-F179    | DA-15S-F179-30 | DAE-15S-F179     | DAE-15S-F179-30 | DAY-15S-F179        | DAY-15S-F179-30 |
| 25        | DB-25S-F179    | DB-25S-F179-30 | DBE-25S-F179     | DBE-25S-F179-30 | DBY-25S-F179        | DBY-25S-F179-30 |
| 37        | DC-37S-F179    | DC-37S-F179-30 | DCE-37S-F179     | DCE-37S-F179-30 | DCY-37S-F179        | DCY-37S-F179-30 |
| 50        | DD-50S-F179    | DD-50S-F179-30 | DDE-50S-F179     | DDE-50S-F179-30 | DDY-50S-F179        | DDY-50S-F179-30 |

##### Tin-Plated Shell

| Positions | Mounting Holes |                 | 4-40 Clinch Nuts |                  | Dual Float Bushings |                  |
|-----------|----------------|-----------------|------------------|------------------|---------------------|------------------|
|           | Gold Flash     | 30µin. Gold     | Gold Flash       | 30µin. Gold      | Gold Flash          | 30µin. Gold      |
| 9         | DE-9ST-F179    | DE-9ST-F179-30  | DEE-9ST-F179     | DEE-9ST-F179-30  | DEY-9ST-F179        | DEY-9ST-F179-30  |
| 15        | DA-15ST-F179   | DA-15ST-F179-30 | DAE-15ST-F179    | DAE-15ST-F179-30 | DAY-15ST-F179       | DAY-15ST-F179-30 |
| 25        | DB-25ST-F179   | DB-25ST-F179-30 | DBE-25ST-F179    | DBE-25ST-F179-30 | DBY-25ST-F179       | DBY-25ST-F179-30 |
| 37        | DC-37ST-F179   | DC-37ST-F179-30 | DCE-37ST-F179    | DCE-37ST-F179-30 | DCY-37ST-F179       | DCY-37ST-F179-30 |
| 50        | DD-50ST-F179   | DD-50ST-F179-30 | DDE-50ST-F179    | DDE-50ST-F179-30 | DDY-50ST-F179       | DDY-50ST-F179-30 |

#### .585" Tail Length

##### Zinc-Plated Shell with Yellow Chromate Finish

| Positions | Mounting Holes |                 | 4-40 Clinch Nuts |                  | Dual Float Bushings |                  |
|-----------|----------------|-----------------|------------------|------------------|---------------------|------------------|
|           | Gold Flash     | 30µin. Gold     | Gold Flash       | 30µin. Gold      | Gold Flash          | 30µin. Gold      |
| 9         | DE-9S-F179C    | DE-9S-F179C-30  | DEE-9S-F179C     | DEE-9S-F179C-30  | DEY-9S-F179C        | DEY-9S-F179C-30  |
| 15        | DA-15S-F179C   | DA-15S-F179C-30 | DAE-15S-F179C    | DAE-15S-F179C-30 | DAY-15S-F179C       | DAY-15S-F179C-30 |
| 25        | DB-25S-F179C   | DB-25S-F179C-30 | DBE-25S-F179C    | DBE-25S-F179C-30 | DBY-25S-F179C       | DBY-25S-F179C-30 |
| 37        | DC-37S-F179C   | DC-37S-F179C-30 | DCE-37S-F179C    | DCE-37S-F179C-30 | DCY-37S-F179C       | DCY-37S-F179C-30 |
| 50        | DD-50S-F179C   | DD-50S-F179C-30 | DDE-50S-F179C    | DDE-50S-F179C-30 | DDY-50S-F179C       | DDY-50S-F179C-30 |

##### Tin-Plated Shell

| Positions | Mounting Holes |                  | 4-40 Clinch Nuts |                   | Dual Float Bushings |                   |
|-----------|----------------|------------------|------------------|-------------------|---------------------|-------------------|
|           | Gold Flash     | 30µin. Gold      | Gold Flash       | 30µin. Gold       | Gold Flash          | 30µin. Gold       |
| 9         | DE-9ST-F179C   | DE-9ST-F179C-30  | DEE-9ST-F179C    | DEE-9ST-F179C-30  | DEY-9ST-F179C       | DEY-9ST-F179C-30  |
| 15        | DA-15ST-F179C  | DA-15ST-F179C-30 | DAE-15ST-F179C   | DAE-15ST-F179C-30 | DAY-15ST-F179C      | DAY-15ST-F179C-30 |
| 25        | DB-25ST-F179C  | DB-25ST-F179C-30 | DBE-25ST-F179C   | DBE-25ST-F179C-30 | DBY-25ST-F179C      | DBY-25ST-F179C-30 |
| 37        | DC-37ST-F179C  | DC-37ST-F179C-30 | DCE-37ST-F179C   | DCE-37ST-F179C-30 | DCY-37ST-F179C      | DCY-37ST-F179C-30 |
| 50        | DD-50ST-F179C  | DD-50ST-F179C-30 | DDE-50ST-F179C   | DDE-50ST-F179C-30 | DDY-50ST-F179C      | DDY-50ST-F179C-30 |