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LOC

DIST

REVISIONS

| P | LTR | DESCRIPTION               | DATE   | DWN | APVD |
|---|-----|---------------------------|--------|-----|------|
|   | A   | REVISED PER E.O. C8206    | 110510 | -   | RB   |
|   | B   | UPDATED PER ECO-14-008850 | 140611 | CB  | EA   |
|   | C   | UPDATED PER ECO-16-000868 | 160126 | MJ  | EA   |

S TYP.

R1 TYP.

R2 TYP.

MASTER KEYWAY

W° REF.

X° REF.

Y° REF.

Z° REF.

4X P

4X PP

.085 MAX.

INSERT PROTRUSION

1.240 MAX.

V

W

D THREAD

RED FULLY MATED INDICATOR BAND REF.

BLUE BAND REF.

EXAMPLE OF PART NUMBER

DTS 20 x xx - xx P/S x-xxxx

MODIFICATION

KEYING POSITION

N = NORMAL, A, B, C, D & E

CONTACT STYLE

P = PIN

A = LESS PIN

H = 1500 CYCLES - PIN

INSERT ARRANGEMENT

SHELL SIZE

CLASS F = NICKEL

G = NICKEL SPACE GRADE

T = TEFLON NICKEL

W = OLIVE DRAB CADMIUM

Z = ZINC NICKEL

SHELL STYLE

20 = SQUARE FLANGE RECEPTACLE

CONNECTOR SERIES

DEUTSCH MIL-DTL-38999 SERIES III

5. FOR AVAILABILITY CONSULT FACTORY. (C1)

4. FOR APPLICABLE KEYING DIAGRAM AND PANEL CUTOUT DIMENSIONS, SEE MIL-DTL-38999. FOR AVAILABLE INSERT ARRANGEMENTS, SEE MIL-STD-1560.

3. GENERAL SPECIFICATIONS: THIS CONNECTOR MEETS THE PERFORMANCE AND INTERMATEABILITY REQUIREMENTS OF MIL-DTL-38999, SERIES III.

2. MATERIAL / FINISH: SHELL - ALUMINUM ALLOY / PLATING PER EXAMPLE PART NUMBER DESCRIPTION.  
RESILIENT INSERTS - SILICONE ELASTOMER  
PLASTIC INSERTS - THERMOPLASTIC.  
CONTACTS - COPPER ALLOY / GOLD PLATED.

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.  
THREAD CALLOUTS ARE METRIC.

NOTES:

| SIZE                  | KEYING DESIGNATION LETTER | W°  | X°  | Y°  | Z°  |
|-----------------------|---------------------------|-----|-----|-----|-----|
| 9                     | N                         | 105 | 140 | 215 | 265 |
|                       | A                         | 102 | 132 | 248 | 320 |
|                       | B                         | 80  | 118 | 230 | 312 |
|                       | C                         | 35  | 140 | 205 | 275 |
|                       | D                         | 64  | 155 | 234 | 304 |
|                       | E                         | 91  | 131 | 197 | 240 |
| 11, 13 AND 15         | N                         | 95  | 141 | 208 | 236 |
|                       | A                         | 113 | 156 | 182 | 292 |
|                       | B                         | 90  | 145 | 195 | 252 |
|                       | C                         | 53  | 156 | 220 | 255 |
|                       | D                         | 119 | 146 | 176 | 298 |
|                       | E                         | 51  | 141 | 184 | 242 |
| 17, 19, 21, 23 AND 25 | N                         | 80  | 142 | 196 | 293 |
|                       | A                         | 135 | 170 | 200 | 310 |
|                       | B                         | 49  | 169 | 200 | 244 |
|                       | C                         | 66  | 140 | 200 | 257 |
|                       | D                         | 62  | 145 | 180 | 280 |
|                       | E                         | 79  | 153 | 197 | 272 |

| PART NUMBER     | SIZE | D THREAD          | P+.004<br>-.002 | PP+.004<br>-.002 | R1    | R2    | S±.011 | V<br>MAX. | W<br>MAX. |
|-----------------|------|-------------------|-----------------|------------------|-------|-------|--------|-----------|-----------|
| DTS20x09-xxP/Sx | 09   | M12X1.0-6g 0.100R | .128            | .216             | .719  | .594  | .937   | .822      | .098      |
| DTS20x11-xxP/Sx | 11   | M15X1.0-6g 0.100R | .128            | .194             | .812  | .719  | 1.031  | .822      | .098      |
| DTS20x13-xxP/Sx | 13   | M18X1.0-6g 0.100R | .128            | .194             | .906  | .812  | 1.126  | .822      | .098      |
| DTS20x15-xxP/Sx | 15   | M22X1.0-6g 0.100R | .128            | .173             | .969  | .906  | 1.220  | .822      | .098      |
| DTS20x17-xxP/Sx | 17   | M25X1.0-6g 0.100R | .128            | .194             | 1.062 | .969  | 1.311  | .822      | .098      |
| DTS20x19-xxP/Sx | 19   | M28X1.0-6g 0.100R | .128            | .194             | 1.156 | 1.062 | 1.437  | .822      | .098      |
| DTS20x21-xxP/Sx | 21   | M31X1.0-6g 0.100R | .128            | .194             | 1.250 | 1.156 | 1.563  | .791      | .126      |
| DTS20x23-xxP/Sx | 23   | M34X1.0-6g 0.100R | .154            | .242             | 1.375 | 1.250 | 1.689  | .791      | .126      |
| DTS20x25-xxP/Sx | 25   | M37X1.0-6g 0.100R | .154            | .242             | 1.500 | 1.375 | 1.811  | .791      | .126      |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN E HAB ALAWNEH 070410

CHK JAMES FRIEDHOF 070523

APVD ALEX RENGIFO 110511

DIMENSIONS:  
INCH

TOLERANCES UNLESS OTHERWISE SPECIFIED:  
0 PLC ±-  
1 PLC ±0.1  
2 PLC ±0.01  
3 PLC ±0.001  
4 PLC ANGLES ±0.0001  
FINISH ±

SEE NOTE 2

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING

NAME

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

TE Connectivity

DTS SQUARE FLANGE ENVELOPE

A2

-

©DTS20xxx-xxP/Sx

-

SCALE 2.500

SHEET 1 OF 1

REV C

1471-9 (3/11)

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