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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

1471-9 (3/11)

.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

CONTACT STYLE

INSERT ARRANGEMENT

SHELL SIZE

CLASS F = NICKEL

G = NICKEL SPACE GRADE

T = TEFLON NICKEL

W = OLIVE DRAB CADMIUM

Z = ZINC NICKEL

SHELL STYLE

CONNECTOR SERIES

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

P = PIN

A = LESS PIN

H = 1500 CYCLES - PIN

S = SOCKET

B = LESS SOCKET

J = 1500 CYCLES - SOCKET

20 = SQUARE FLANGE RECEPTACLE

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 -.002	PP+.004 -.002	R1	R2	S±.011	V MAX.	W 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.

DIMENSIONS: INCH

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

MATERIAL SEE NOTE 2

DWN E HAB ALAWNEH 070410
CHK JAMES FRIEDHOFF 070523
APVD ALEX RENGIFO 110511

PRODUCT SPEC -
APPLICATION SPEC -
WEIGHT -

CUSTOMER DRAWING

TE Connectivity

DTS SQUARE FLANGE ENVELOPE

SIZE A2
CAGE CODE -
DRAWING NO C-DTS20xxx-xxP/Sx
RESTRICTED TO -

SCALE 2.500
SHEET 1 OF 1
REV C

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