

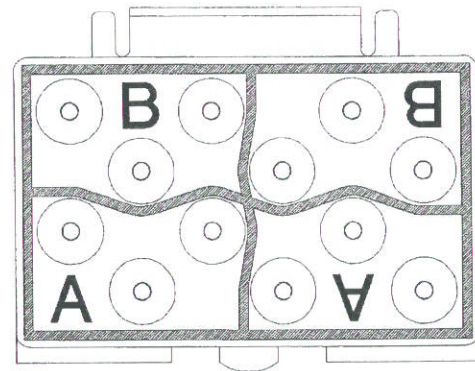
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C

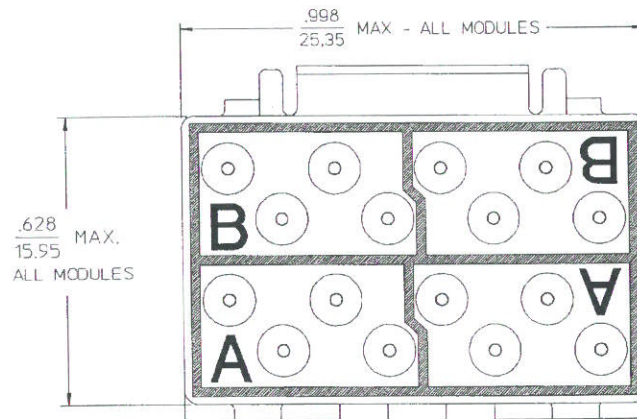
B

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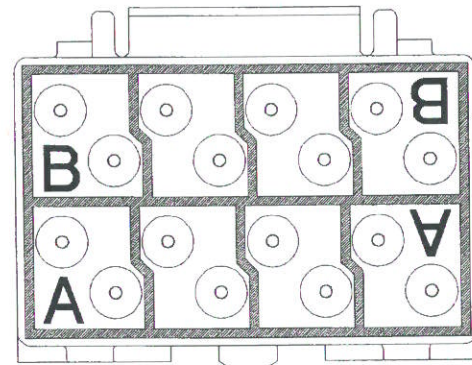
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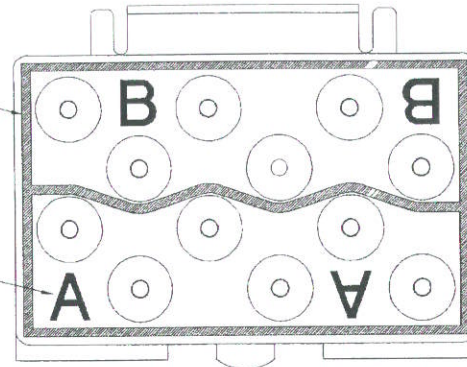
SIZE 16
FCI CATALOG NUMBER
RBTB16-3W
BOEING PART NO. S280W555-203
3 TERMINALS BUSSELED X4



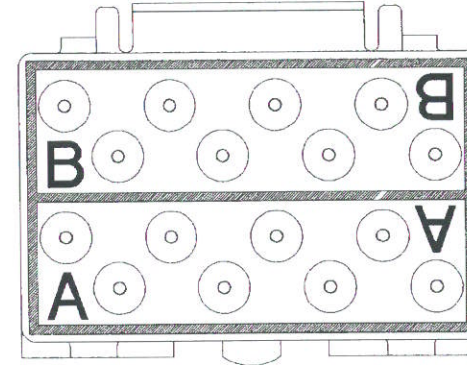
SIZE 20
FCI CATALOG NUMBER
RBTB20-4W
BOEING PART NO. S280W555-104
4 TERMINALS BUSSELED X4



SIZE 20
FCI CATALOG NUMBER
RBTB20-2W
BOEING PART NO. S280W555-102
2 TERMINALS BUSSELED X8



SIZE 16
FCI CATALOG NUMBER
RBTB16-6W
BOEING PART NO. S280W555-206
6 TERMINALS BUSSELED X2



SIZE 20
FCI CATALOG NUMBER
RBTB20-8W
BOEING PART NO. S280W555-108
8 TERMINALS BUSSELED X2

INK STAMPED BORDER SURROUNDS
BUSSELED POSITIONS. COLOR WHITE.
TYPICAL ALL MODULES

INK STAMPED CONTACT LOCATION
LETTERS "A" AND "B".
COLOR WHITE.
TYPICAL ALL MODULES.

NOTES: UNLESS OTHERWISE SPECIFIED:

1 INTERPRET THIS DRAWING IN ACCORDANCE WITH ANSI Y14.5M-1982.

MATERIAL:

- STRAIN RELIEF GROMMET: SILICONE RUBBER, COLOR: RED, (20)
BLUE, (16)
- GROMMET BONDING: EPOXY
- MODULE BODY AND BASE: GLASS FORTIFIED THERMOPLASTIC
UL94V-0, COLOR BLUE
- SOCKET CONTACT SLEEVES: THERMOPLASTIC:
GLASS FORTIFIED THERMOPLASTIC
UL 94V-0, COLOR NATURAL OR LIQUID
CRYSTAL POLYMER
- SOCKET CONTACTS: BERYLLIUM COPPER
- CONTACT RETENTION CLIPS: BERYLLIUM COPPER

FINISH:

- SOCKET CONTACTS: 50 MICRONCHES [1,27 MICRONS] MIN
NICKEL ALL OVER, PIN CONTACT CURRENT
BEARING SURFACE OVER-PLATED WITH
50 MICRONCHES [1,27 MICRONS] MIN
HARD GOLD.

D

C

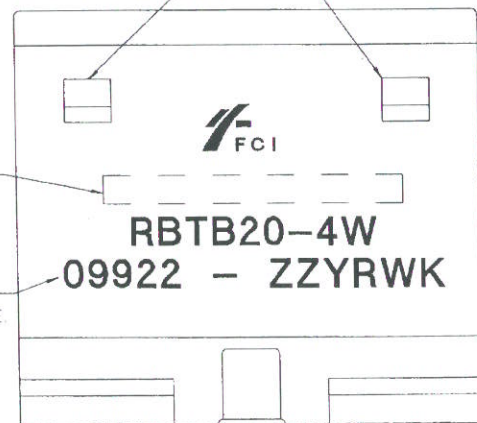
B

A

TABS ARE OMITTED ON
RBTB16-_W MODULE

CUSTOMER PART NO.
INK STAMPED,
COLOR WHITE

FCI CATALOG NO.,
CAGE NO., DATE CODE
AND NAME,
INK STAMPED,
COLOR WHITE

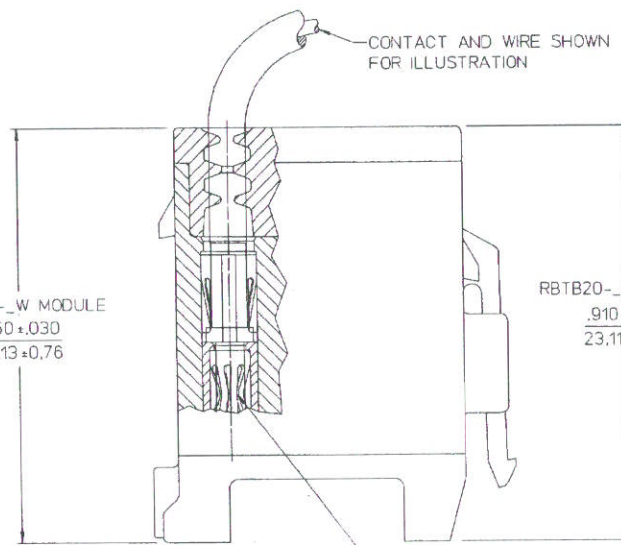


CONTACT AND WIRE SHOWN
FOR ILLUSTRATION

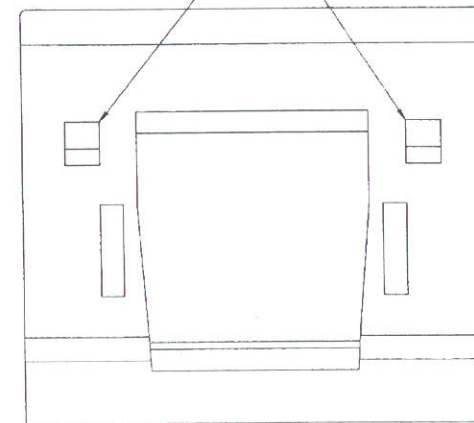
RBTB16-_W MODULE
.950 ± .030
24.13 ± 0.76

RBTB20-_W MODULE
.910 ± .030
23.11 ± 0.76

PIN CONTACT CURRENT
BEARING SURFACE



TABS ARE OMITTED ON
RBTB16-_W MODULE



SUPERSEDES SKME27683 REV 4

REV	DESCRIPTION	BY	CHKD	DATE
1	REVISED PER EDCN435	JRD	SDH	11-19-01
2	REVISED PER EDCN435	SAF	TMN	09-21-99
3	REVISED PER EDCN421	SAF	TMN	08-24-99
4	REVISED PER EDCN412	SAF	TMN	09-12-99
5	ADDED (20, BLUE 16) TO GROMMET MATL. (ECN333)	JW	CL	07-10-95
6	SH 1: REMOVED CAT NOS RBTB16-3 & -6, RBTB20-2, -4 & -8, SH 2: ADDED W TO TABS BUNDLY CAT NOS. (ECN 3284)	JW	CL	06-13-95
7	SEE REV REF PRINT (ECN2353)	JJK	JJK	10-06-93
8	SHT 1 & 2: PICTORALLY UPDATED BASE PER DETAIL DWGS, ADDED CAT. NOS. RBTB16-3W & -6W, RBTB20-2W, -4W & -8W. (ECN2304)	DLB	GJD	8-16-93
9	SHT 1: ADDED BOEING PART NOS. SHT 2: NO CHANGE. (ECN 2185)	GJD	GJD	3-1-93
10	SHT 1: SEE REV REF PRINT SHT 2: NO CHANGE. (ECN 2184)	GJD	GJD	2-3-93

SIZE 16 AND 20 FEEDBACK MODULES
CAT NO.: RBTB16-_W, RBTB20-_W (SEE DESC. SH 2)

LINEAR MEASURE INCH (mm)	THIRD ANGLE PROJECTION	TOLERANCES UNLESS OTHERWISE SPECIFIED	NO. OF PLACES	ONE PLACE	TWO PLACES	THREE PLACES	ANGLES: 1°
				x1 (1.3)	x02 (0.05)	x010 (0.25)	

APPROVAL: DRAWN: GJD 08-07-92
CHKD: FDH 10-13-92
DSGN: JDA 10-13-92
MFG: NY 10-13-92
DCC: SJ 10-13-92

DRAWING SCALE: 5:1
DRAWING NO.: REV
SE94834 J
SHEET 1 OF 2

CUSTOMER www.fciconnect.com

8 7 6 5 4 3 2 1

ME10

PERFORMANCE CHARACTERISTICS

ELECTRICAL:

CONTACT RESISTANCE: IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.16, REF: MIL-STD-1344, METHOD 3004.
 SIZE 16-20: 45 MILLIVOLTS MAX AT 7.5A WITH 20 AWG SILVER PLATED WIRE.
 SIZE 14-16: 50 MILLIVOLTS MAX AT 13.0A WITH 16 AWG SILVER PLATED WIRE.

LOW LEVEL CONTACT RESISTANCE: IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.17, REF: MIL-STD-1344, METHOD 3002.
 SIZE 16-20: .009 OHMS MAX WITH 20 AWG SILVER PLATED WIRE.
 SIZE 14-16: .005 OHMS MAX WITH 16 AWG SILVER PLATED WIRE

VOLTAGE STABILITY: 4 MILLIVOLT MAX DIFFERENCE BETWEEN RECORDED HIGHEST AND LOWEST POTENTIAL DROP VALUES IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.18.

DIELECTRIC WITHSTANDING VOLTAGE (SEA LEVEL): 1500 VRMS IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.6.1, REF: MIL-STD-1344, METHOD 3001, TEST CONDITION I.

DIELECTRIC WITHSTANDING VOLTAGE (ALTITUDE): 600 VRMS IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.6.2, REF: MIL-STD-1344, METHOD 3001, TEST CONDITION IV.

INSULATION RESISTANCE: 5000 MEGOHMS MIN IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.11.1, REF: MIL-STD-1344, METHOD 3003.

INSULATION RESISTANCE (ELEVATED TEMPERATURE): 50 MEGOHMS MIN AFTER 1000 HOURS AT 150°C [302°F] IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.11.2.

MECHANICAL:

MAGNETIC PERMEABILITY: ALL MATERIALS DO NOT EXHIBIT A RELATIVE MAGNETIC PERMEABILITY OF GREATER THAN 2 IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.15, REF: MIL-STD-1344, METHOD 3006.

MAINTENANCE AGING: IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.3.

CONTACT INSERTION/REMOVAL FORCE: 10 LBS [44.4N] MAX (SIZE 16-20) AND 15 LBS [66.7N] MAX (SIZE 14-16), IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.3.

CONTACT RETENTION: 20 LBS [88.9N] MIN (SIZE 16-20) AND 25 LBS [111.2N] MIN (SIZE 14-16), IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.4, AXIAL DISPLACEMENT DOES NOT EXCEED .012 [0.30], REF: MIL-STD-1344, METHOD 2007.

PROBE DAMAGE: IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.2.

RETENTION SYSTEM FLUID IMMERSION: IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.23.

INTERNAL CONTACT DURABILITY: 100 CYCLES OF MATING AND UNMATING TO DEPTH OF MECHANICAL AND ELECTRICAL ENGAGEMENT IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.19.

OVERSIZE PIN CONTACT PROTECTION: MODULE DESIGNED TO PREVENT ENTRANCE OF AN OVERSIZE TEST PIN OF ϕ .070 [1.78] (SIZE 16-20) OR ϕ .088 [2.24] (SIZE 14-16) IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.20.

CONTACT WALKOUT: IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.22, REF: MIL-STD-1549.

LATCH DURABILITY: 100 CYCLES

ENVIRONMENTAL:

ALTITUDE IMMERSION: 75,000 FT [22,860 m] FOR 30 MINUTES IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.21, REF: MIL-STD-1344, METHOD 1004.

FLUID IMMERSION: ALL MATERIALS ARE RESISTANT TO BMS3-11 (SKYDROL LD-4) AND MIL-H-5606 HYDRAULIC FLUIDS, AND MIL-L-7808 AND MIL-L-23699 LUBRICATING OILS.

HUMIDITY: IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.10, REF: MIL-STD-1344, METHOD 1002, TYPE II, (EXCEPT WITHOUT STEP 7b).

SALT SPRAY: 500 HOURS IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.12, REF: MIL-STD-1344, METHOD 1001, TEST CONDITION C.

VIBRATION (SINUSOIDAL): IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.8.1, REF: MIL-STD-202, METHOD 204, TEST CONDITION G.

VIBRATION (RANDOM): IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.8.2, REF: MIL-STD-1344, METHOD 2005, TEST CONDITION VI, LETTER J.

MECHANICAL (IMPACT) SHOCK: IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.9, REF: MIL-STD-1344, METHOD 2004, TEST CONDITION D.

THERMAL SHOCK: IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.5, REF: MIL-STD-1344, METHOD 1003, TEST CONDITION A, (EXCEPT TEMPERATURE EXTREMES ARE -65°C TO +150°C [-85°F TO +302°F]).

TEMPERATURE LIFE: 150°C [302°F] FOR 1000 HOURS IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.13.

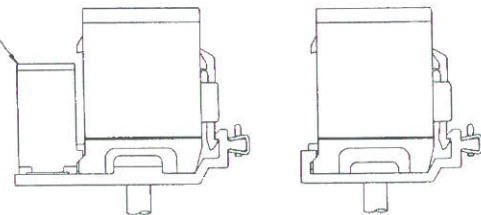
OZONE: IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.14, REF: MIL-STD-1344, METHOD 1007.

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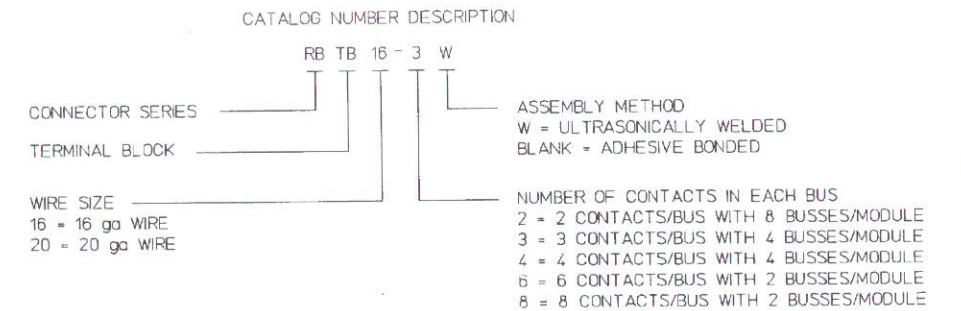
SEE DRAWING SE94843 FOR GROUNDING AND MOUNTING TRACKS.



FEEDBACK MODULE INSTALLED IN GROUNDING AND MOUNTING TRACKS

MAXIMUM WEIGHTS	
FCI CATALOG NO.	WEIGHT (g)
RBTB16-3W	12.0
RBTB16-6W	
RBTB20-2W	11.0
RBTB20-4W	
RBTB20-8W	

SIZE AND ACCOMMODATIONS					
FCI CATALOG NO.	CONTACT MIL-C-39029/1	WIRE RANGE AWG	CURRENT RATING AMPS PER CAVITY	INSERTION AND REMOVAL TOOL: MIL-I-81969/14C	CONTACT POSITIONS
RBTB16-_W	-102	18-16	13 WITH 16 AWG	-03	12
RBTB20-_W	-101	24-22-20	7.5 WITH 20 AWG	-11	16



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SIZE 16 AND 20 FEEDBACK MODULES

CAT NO.: RBTB16-_W, RBTB20-_W (SEE DESC. SH 2)

LINEAR MEASURE INCH (mm)	THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED	NO. OF PLACES	ONE PLACE	TWO PLACES	THREE PLACES	ANGLES 1*
				±.1 (±.3)	±.02 (±.05)	±.010 (±.025)	

APPROVAL: [Signature]

DATE: 10-13-92

DRAWING NO. SE94834

SHEET 2 OF 2

ME10

D

C

B

A