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AS31421

FEDERAL SUPPLY CLASS
5935

RATIONALE

AS31421 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THE REQUIREMENTS FOR PROCURING THE CONNECTORS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF: SAE AS50151

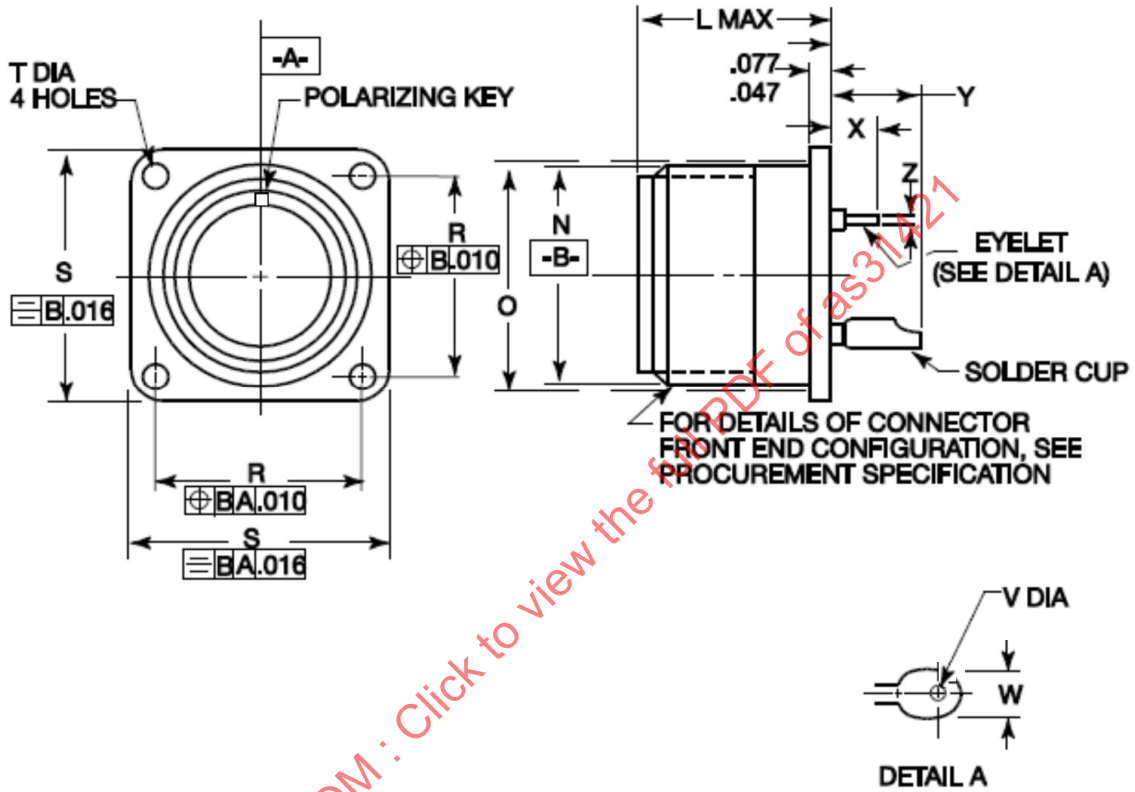
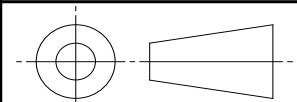


FIGURE 1 BOX MOUNT CLASS H HERMETIC SEAL CONNECTOR

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on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS31421>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS50151



AEROSPACE STANDARD

CONNECTORS, RECEPTACLE, ELECTRICAL,
BOX MOUNTING, SOLDER CONTACT,
HERMETIC, AN TYPE

AS31421
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ISSUED 2009-09 REAFFIRMED 2014-10

TABLE 1 - CONNECTOR DIMENSIONS

SIZE	L MAX		N +000 -.062	O (REF) MTG. HOLE	R T. P. CL-CL	S ±.031	T ±.005
	CONTACT SIZE 20, 16, 12, 8	CONTACT SIZE 4, 0					
8S	.730	N/A	.532	.562	.594	.875	.120
10S	.730	N/A	.656	.688	.719	1.000	.120
10SL	.730	N/A	.656	.688	.719	1.000	.120
12S	.730	N/A	.782	.812	.812	1.094	.120
12	.915	N/A	.782	.812	.812	1.094	.120
14S	.730	N/A	.906	.938	.906	1.188	.120
14	.915	N/A	.906	.938	.906	1.188	.120
16S	.730	1.040	1.032	1.062	.969	1.281	.120
16	.915	1.040	1.032	1.062	.969	1.281	.120
18	.915	1.040	1.156	1.188	1.062	1.375	.120
20	.915	1.040	1.282	1.312	1.156	1.500	.120
22	.915	1.040	1.406	1.438	1.250	1.625	.120
24	.915	1.040	1.532	1.562	1.375	1.750	.147
28	.915	1.040	1.782	1.812	1.562	2.000	.147
32	.915	1.040	2.032	2.062	1.750	2.250	.173
36	.915	1.040	2.282	2.312	1.938	2.500	.173
40	.915	1.040	2.532	2.562	2.188	2.750	.173
44	.915	1.040	2.782	2.812	2.375	3.000	.173
48	.915	1.040	3.032	3.062	2.625	3.250	.173

TABLE 2 - CONTACT DIMENSIONS

CONTACT SIZE	X MAX	Y MAX	Z MAX	V MIN	W MAX
16	.219	.375	.020	.065	.115
12	.281	.516	.020	.096	.190
8	N/A	.719	N/A	N/A	N/A
4	N/A	.980	N/A	N/A	N/A
0	N/A	.980	N/A	N/A	N/A

REQUIREMENTS

1. DIMENSIONS IN INCHES IN ACCORDANCE WITH FIGURE 1, TABLE 1, AND TABLE 2. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE $\pm .016$ INCH. DIMENSIONS AND TOLERANCES ARE DEFINED IN ACCORDANCE WITH ASME Y14.5. DETAILS OF THE CONNECTOR FRONT END ARE DEFINED IN AS50151.
2. INSERT ARRANGEMENT ARE AS SPECIFIED IN MIL-STD-1651.
3. BASE MATERIAL IS STAINLESS STEEL OR FERROUS ALLOY (WITH ELECTRICALLY CONDUCTIVE FUSED FINISH OR ELECTROLESS NICKEL FINISH).
4. CLASS H CONNECTORS WITH ELECTROLESS NICKEL FINISH ARE INACTIVE FOR NEW DESIGN AFTER 25 APRIL 1974.

APPLICATIONS

1. AS50151 FRONT AND REAR RELEASE CRIMP CONNECTORS AND SOLDER CONTACT CONNECTORS ARE INTERMATEABLE.

**AEROSPACE STANDARD**

CONNECTORS, RECEPTACLE, ELECTRICAL,
BOX MOUNTING, SOLDER CONTACT,
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