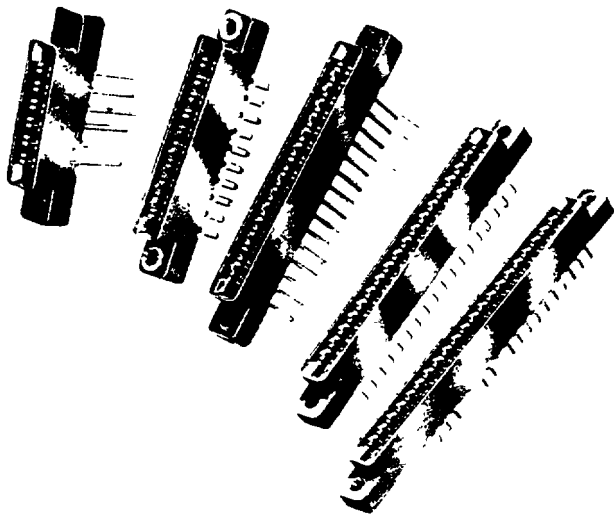


145-149

.156" SERIES 307 CARD EDGE RECEPTACLE 3.96mm**SPECIFICATIONS**

CURRENT RATING: 5 Amperes
CONTACT MATERIAL: Phosphor Bronze, per QQ-B-750, Composition A, or CA725
CONTACT PLATING: 10-20 microinches gold over 30-150 microinches Nickel, or 30 microinches gold inlay on CA725
CONTACT RESISTANCE: 6 Milliohms, max.
CONTACT DURABILITY (GOLD INLAY): No Mechanical or Electrical degradation (minimum 500 insertions nominal gauge)
INSULATOR MATERIAL: Green Diallyl Phthalate, glass filled, flame resistant per MIL-M-14F, Type SDG-F, or Black, high impact, glass fibre filled, electrical grade Phenolic
INSULATION RESISTANCE: 5000 Megohms, min.
ELECTRIC WITHSTANDING VOLTAGE:
 Sea level: 2000 Volts RMS
 3.4" Hg. (86.36mm) 675 Volts RMS
INSERTION AND WITHDRAWAL FORCE:
 Insertion force max. 16 oz. with .070" gauge (4.45N) (1.78mm)
 Withdrawal force min. 2 oz. with .054" gauge (.56N) (1.37mm)
CARD SLOT: Accepts P.C. Boards .054" to .070" thick (1.37mm to 1.78mm)
OPERATING TEMPERATURE: -65°C. to +125°C.

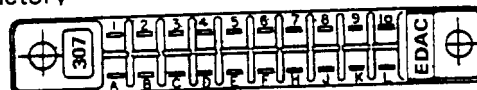


.200" ROW SPACING
 (5.08mm)
FEATURES



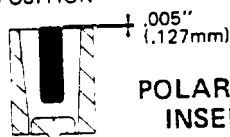
P.C. Tab and Solder Hole 307 only

- Insulators are made of Green Diallyl Phthalate or Black, high impact, electrical grade, glassfibre filled, Phenolic
- Available With or Without Mounting Lugs — With .128" (3.25mm) dia. Mounting Holes for No.4 Screw — With .156" (3.96mm) Mounting Holes for Mounting Card Guides — With .116" (2.95mm) I.D. Floating Eyelets — with No.4-40 or 3mm Threaded Inserts
- Contact Spacing is .156" (3.96mm) X .200" (5.08mm) Row Spacing, Ribbon Type Contacts With Bifurcated Nose
- Three Styles of Terminations: Solder Tail; .090" (2.29mm) wide X .013" (.33mm) thick, P.C. Tail; .048" (1.22mm) wide X .013" (.33mm) thick, and Solderless Wrap; .048" (1.22mm) wide X .013" (.33mm) thick. For tail length see "G" Dimension
- Single or Dual Readout. Single Readout Tails are normally provided on the numbered side. Polarizing Keys can be inserted Between-Contact or In-Contact Positions
- Stocked in 33 sizes from 6/12 to 44/88. Flush mounting, D.A.P. or Phenolic. See page 47 for stock availability
- Three Types of Card Guides are Available to fit all Sizes of Insulators. The In-line Type is 1.80" (45.72mm) long. The Offset Types are: .468" (11.89mm) X 3.00" (76.20mm) long; and .344" (8.737mm) X 2.75" (68.85mm) long
- For use with .054" (1.37mm) to .070" (1.78mm) Printed Circuit Boards
- Staggered Pin-Outs, Right Angle Tail Terminations and Other Special Variations are Available. Consult Factory



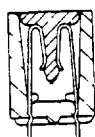
NOTE: Contact identification above 22/44 pin-out is as follows
 Numbers 1 2 3 22 23 24 25 43
 Letters A B C — — — Z A A A B A C — — — A Y

BETWEEN CONTACT POSITION



PART NUMBER
 306-240-318

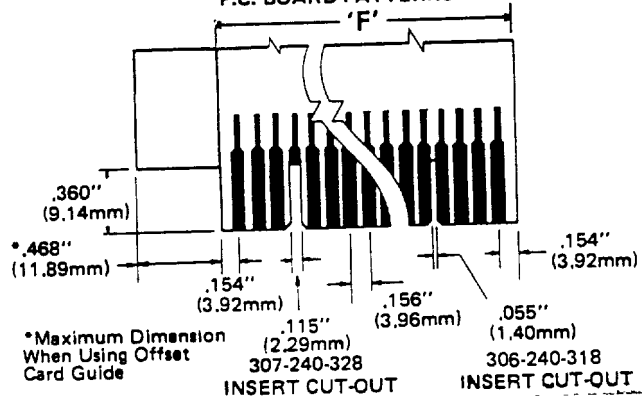
IN CONTACT POSITION



PART NUMBER
 307-240-328

POLARIZING INSERTS

P.C. BOARD PATTERNS

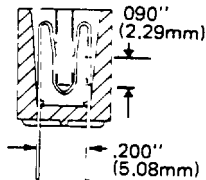


EDAC INC.

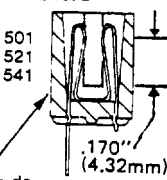
.156" SERIES 307 357 CARD EDGE RECEPTACLE 3.96mm

CONTACT ROWS

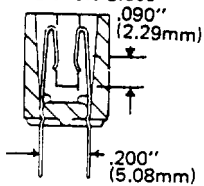
Cross Section
Switching Contacts
523



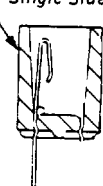
Cross Section
Single Sided
Read both sides
of board



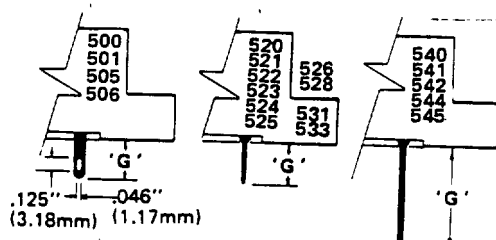
Cross Section
Double Sided
090" (2.29mm)
200" (5.08mm)



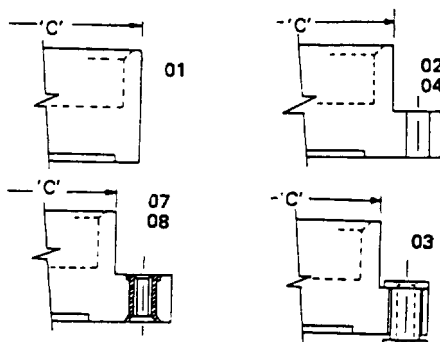
Cross Section
Single Sided
505, 506
525, 531
545
read one
side of
board



TERMINATION STYLES



MOUNTING STYLES



For Special Variations, Extender Board Variations and 90° bends, see Page 128

ORDERING CODE

307 030 500 202

SERIES 307 D.A.P.
357 Phenolic

NUMBER OF CONTACTS

SINGLE	DUAL
6	12
7	14
10	20
11	22
12	24
13	26
14	28
15	30
18	36
20	40
22	44
24	48
25	50
28	56
30	60
36	72
43	86

CONTACT CODE

SINGLE READOUT CONTACTS		Tolerance ±.02" (.51mm)	
CODE	DESCRIPTION	'G' Dimension	
501	Solder Hole .090x.013" 2.29x.33mm	.237"	6.02mm
505	Solder Hole .090x.013" 2.29x.33mm	.282"	7.16mm
506†	Solder Hole .090x.013" 2.29x.33mm	.282"	7.16mm
521	P.C. Tab .048x.013" 1.22x.33mm	.213"	5.41mm
525	P.C. Tab .048x.013" 1.22x.33mm	.213"	5.41mm
531†	P.C. Tab .024x.013" .61x.33mm	.213"	5.41mm
541	Wire Wrap* .048x.013" 1.22x.33mm	.495"	12.57mm
545	Wire Wrap* .048x.013" 1.22x.33mm	.708"	17.98mm
Contacts 501, 521, 541 read on both sides of P.C. Board.			
Contacts 505, 506, 525, 531, 545 read on one side of P.C. Board.			
DUAL READOUT CONTACTS			
540	Wire Wrap* .048x.013" 1.22x.33mm	.708"	17.98mm
542	Wire Wrap* .048x.013" 1.22x.33mm	.520"	13.21mm
544†	Wire Wrap* .048x.013" 1.22x.33mm	.708"	17.98mm
520	P.C. Tab .048x.013" 1.22x.33mm	.213"	5.41mm
522	P.C. Tab .048x.013" 1.22x.33mm	.358"	9.10mm
524	P.C. Tab .024x.013" .61x.33mm	.213"	5.41mm
526†	P.C. Tab .048x.013" 1.22x.33mm	.213"	5.41mm
528†	P.C. Tab .048x.013" 1.22x.33mm	.358"	9.10mm
533†	P.C. Tab .024x.013" .61x.33mm	.213"	5.41mm
500	Solder Hole .090x.013" 2.29x.33mm	.282"	7.16mm
502†	Solder Hole .090x.013" 2.29x.33mm	.282"	7.16mm
523**	P.C. Tab .048x.013" 1.22x.33mm	.213"	5.41mm

† 30 microinches gold inlay on CA725

** Switching contacts (used in pairs), contact distributor.

READOUT AND INSULATOR STYLE

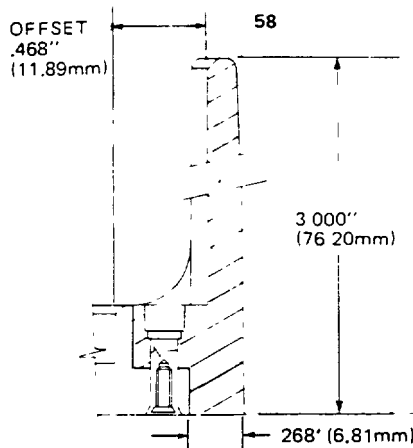
1	Single Readout Flush Mounting
2	Dual Readout Flush Mounting

VARIATION CODE

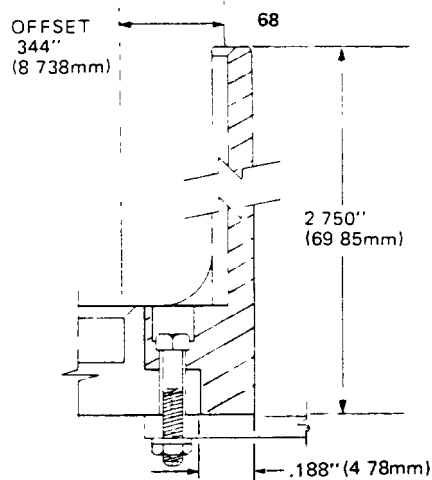
CODE	DESCRIPTION	
01	No Mounting Lugs	
02	.128" dia. Mounting Holes	3.25mm
03	.116" I.D. Floating Eyelets	2.95mm
04	.156" dia. Mounting Holes	3.96mm
07	Threaded Inserts	3.00mm
08	No. 4-40 Threaded Inserts	
58	Card Guides, Offset .468"	11.89mm
68	Card Guides, Offset .344"	8.74mm
78	Card Guides, In-line	

.156" SERIES 307 CARD EDGE RECEPTACLE 3.96mm

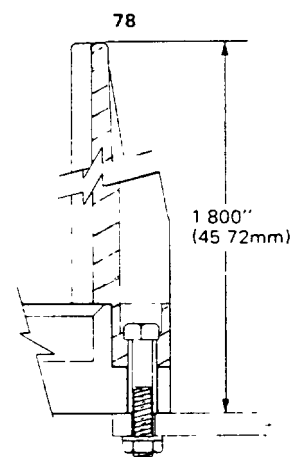
CARD GUIDE OPTIONS



*Offset Card Guides
Factory Assembled
with NO. 4-40
Threaded Insert*



*Offset Card Guide
Field Assembled to
-04 Type Insulator*

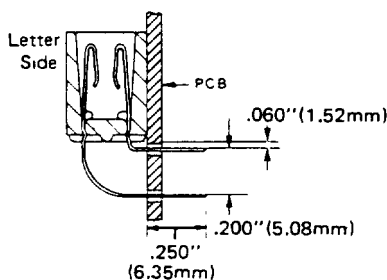


*In-Line Card Guide
Field Assembled to
-04 Type Insulator*

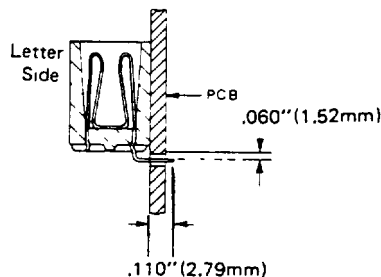
Card Guides are normally factory assembled to the connector body and have a No. 4-40 x .280" (7.11mm) Threaded Insert for mounting. Card Guides may be ordered separately and mounted to the 307 connector which has .156" (3.96mm) diameter holes through the mounting lugs, (04 variation). To order Card Guides separately which are in-line to the connector slot, specify Part No. 307-220-078. To order Card Guides separately for which the guiding edge is offset .468" (11.89mm) from the edge of the connector slot, specify Part No. 307-220-058, for offset .344" (8.74mm) specify Part No. 307-220-068. For each Card Guide, a bushing, Part No. 345-250-442 must be used. Either a No. 4 Hex Head or Round Head Machine Screw 5/8" long, with a nut and washer will hold the assembly to a 1/16" panel.

CONTACT TAIL OPTIONS

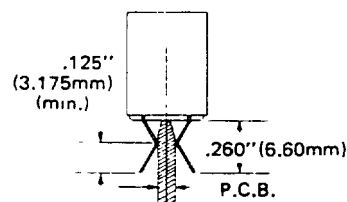
DUAL 558



SINGLE 553



EXTENDER BOARD 555



EXAMPLE: If you require a 44 pin connector with P.C. Tab, bent contacts and .128" (3.25) Mounting Holes the ordering code is:

307-044-558-202

.156" SERIES 307 CARD EDGE RECEPTACLE 3.96mm

307 SERIES CARD-EDGE CONNECTOR DIMENSIONS CHART

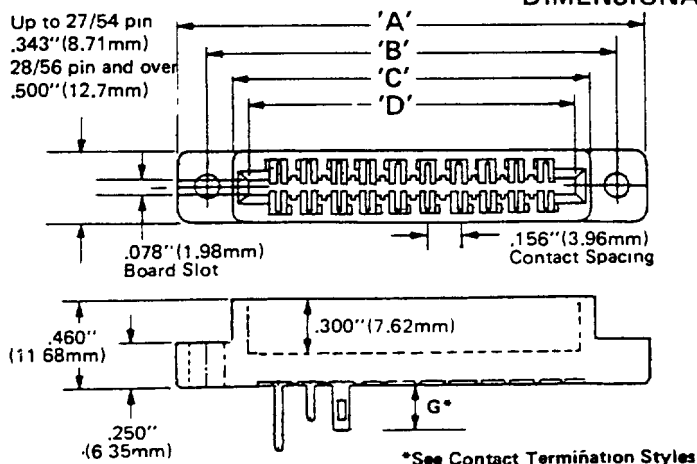
Number of Contacts		A ⁺ .015" (.38mm)		B ⁺ .008" (.20mm)		C ⁺ .015" (.38mm)		D ⁺ .006" (.15mm)		E ⁺ .005" (.13mm)		F ⁺ .000" (.38mm)	
Single	Dual	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
X ● 6	12	1.842	46.78	1.532	38.91	1.246	31.65	1.100	27.94	1.290	32.77	1.088	27.63
● 7	14	1.998	50.75	1.688	42.87	1.402	35.61	1.256	31.90	1.446	36.73	1.244	31.60
● 8	16	2.154	54.71	1.844	46.84	1.558	39.57	1.412	35.86	1.602	40.69	1.400	35.56
● 9	18	2.310	58.67	2.000	50.80	1.714	43.54	1.568	39.82	1.758	44.65	1.556	39.52
X ● 10	20	2.466	62.64	2.156	54.76	1.870	47.50	1.724	43.79	1.914	48.62	1.712	43.48
● 11	22	2.622	66.60	2.312	58.72	2.026	51.46	1.880	47.75	2.070	52.58	1.868	47.45
X ● 12	24	2.778	70.56	2.468	62.69	2.182	55.42	2.036	51.51	2.226	56.54	2.024	51.41
● 13	26	2.934	74.52	2.624	66.65	2.338	59.38	2.192	55.68	2.382	60.50	2.180	55.37
X ● 14	28	3.090	78.49	2.780	70.61	2.494	63.35	2.348	59.64	2.538	64.47	2.336	59.33
X ● 15	30	3.246	82.45	2.936	74.57	2.650	67.31	2.504	63.60	2.694	68.43	2.492	63.30
● 16	32	3.402	86.41	3.092	78.54	2.806	71.27	2.660	67.56	2.850	72.39	2.648	67.26
● 17	34	3.558	90.37	3.248	82.50	2.962	75.23	2.816	71.53	3.006	76.35	2.804	71.22
X ● 18	36	3.714	94.34	3.404	86.46	3.118	79.20	2.972	75.49	3.162	80.31	2.960	75.18
● 19	38	3.870	98.30	3.560	90.42	3.274	83.16	3.128	79.45	3.318	84.28	3.116	79.15
● 20	40	4.026	102.3	3.716	94.39	3.430	87.12	3.284	83.41	3.474	88.24	3.272	83.11
● 21	42	4.182	106.2	3.872	98.35	3.586	91.08	3.440	87.38	3.630	92.20	3.428	87.07
X ● 22	44	4.338	110.2	4.028	102.3	3.742	95.04	3.596	91.34	3.786	96.16	3.584	91.03
● 23	46	4.494	114.1	4.184	106.2	3.898	99.00	3.752	95.30	3.942	100.1	3.740	95.00
● 24	48	4.650	118.1	4.340	110.2	4.054	102.9	3.908	99.26	4.098	104.1	3.896	98.95
X ● 25	50	4.806	122.0	4.496	114.2	4.210	106.9	4.064	103.2	4.254	108.0	4.052	102.9
● 26	52	4.962	126.0	4.652	118.2	4.366	110.9	4.220	107.2	4.410	112.0	4.208	106.9
● 27	54	5.118	129.9	4.808	122.1	4.522	114.8	4.376	111.1	4.566	115.9	4.364	110.8
X ● 28	56	5.274	133.9	4.964	126.1	4.678	118.8	4.532	115.1	4.722	119.9	4.520	114.8
● 29	58	5.430	137.9	5.120	130.0	4.834	122.8	4.688	119.1	4.878	123.9	4.676	118.8
X ● 30	60	5.586	141.9	5.276	134.0	4.990	126.7	4.844	123.0	5.034	127.9	4.832	122.7
● 31	62	5.742	145.8	5.432	137.9	5.146	130.7	5.000	127.0	5.190	131.8	4.988	126.7
● 32	64	5.898	149.8	5.588	141.9	5.302	134.7	5.156	131.0	5.346	135.8	5.144	130.6
● 33	66	6.054	153.8	5.744	145.9	5.458	138.6	5.312	134.9	5.502	139.8	5.300	134.6
● 34	68	6.210	157.7	5.900	149.9	5.614	142.6	5.468	138.9	5.658	143.7	5.456	138.6
● 35	70	6.366	161.7	6.056	153.8	5.770	146.6	5.624	142.8	5.814	147.7	5.612	142.5
X ● 36	72	6.522	165.6	6.212	157.8	5.926	150.5	5.780	146.8	5.970	151.6	5.768	146.5
● 37	74	6.678	169.6	6.368	161.7	6.082	154.5	5.936	150.8	6.126	155.6	5.924	150.5
● 38	76	6.834	173.6	6.524	165.7	6.238	158.4	6.092	154.7	6.282	159.6	6.080	154.4
● 39	78	6.990	177.6	6.680	169.7	6.394	162.4	6.248	158.7	6.438	163.5	6.236	158.4
● 40	80	7.146	181.5	6.836	173.6	6.550	166.4	6.404	162.7	6.594	167.5	6.392	162.3
● 41	82	7.302	185.5	6.992	177.6	6.706	170.3	6.560	166.6	6.750	171.4	6.548	166.3
● 42	84	7.458	189.4	7.148	181.6	6.862	174.3	6.716	170.6	6.906	175.4	6.704	170.3
X ● 43	86	7.614	193.4	7.304	185.5	7.018	178.2	6.872	174.5	7.062	179.4	6.860	174.2
● 44	88	7.770	197.4	7.460	189.5	7.174	182.2	7.028	178.5	7.218	183.3	7.016	178.2

X 357

● 307

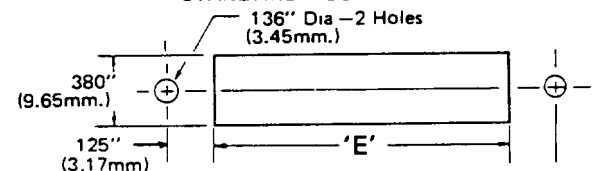
X ● INDICATES STOCK ITEMS. FOR OTHER SIZES CONTACT DISTRIBUTOR

DIMENSIONAL DRAWINGS



EDAC INC.

STANDARD MOUNTING PATTERN



DUAL P.C. CONTACT PATTERN

