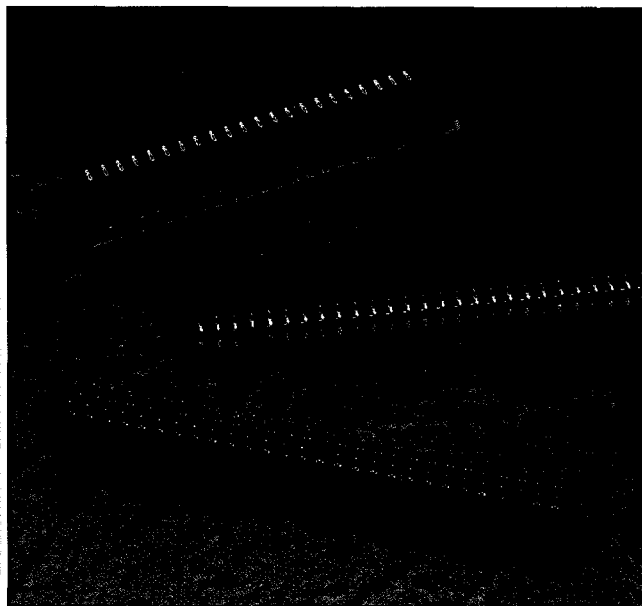


737 SERIES ULTRA-MATE CARD EDGE CONNECTOR

.156" (3.96mm) Contact Spacing, Compliant Pin



- ◆ UL Recognized
- ◆ .156 (3.96) Contact Spacing x .200 (5.08) Row Spacing
- ◆ Accepts .062 (1.57) Nominal Thickness P.C. Board
- ◆ High Profile Insulator Body, .645 (16.38) with End Notches
- ◆ Ultra-Mate Compliant Section for Gas-Tight Reliable Connection in Plated Through Holes Eliminates Soldering Operations
- ◆ Contact Termination Options include P.C. Tail and .025 (0.64) Square Wire Wrap
- ◆ Single or Dual Row Configurations
- ◆ Accepts Between Contact and In-Contact Polarizing Keys
- ◆ Tools Available for Insulator and Contact Removal. Simple "Flat Rock" Tooling is Used for Connector Installation

SPECIFICATIONS

- ◆ Insulator Material: Thermoplastic Polyester, UL 94V-O, Colour: Black
- ◆ Contact Material: Copper, Nickel, Tin Alloy CA-725
- ◆ Contact Plating: 30 Microinches (0.76 Microns) Gold on the Mating Area, Tin-Lead on the Compliant Section and Contact Tails, Nickel Underplate. Other Plating Options Available upon Request.
- ◆ Current Rating: 3 Amperes Continuous
- ◆ Contact Resistance: 10 Milliohms Maximum
- ◆ Dielectric Withstanding Voltage: 1800 V AC rms at Sea Level Between Adjacent Contacts
- ◆ Insulation Resistance: 5000 Megohms Minimum
- ◆ Operating Temperature: -65 to +125 Degrees C
- ◆ Daughter Board Insertion Force: 16 oz (4.45 N) Maximum per Contact Pair when Tested with a .070 (1.78) Thick Gauge
- ◆ Daughter Board Withdrawal Force: 1 oz (0.28 N) Minimum per Contact Pair when Tested with a .054 (1.37) Thick Gauge
- ◆ Contact Insertion into Hole: 20 lbs (89 N) Maximum
- ◆ Contact Retention in Hole: 10 lbs (44 N) Minimum
- ◆ Re-Insertability of Hole: 3 Times Minimum

ORDERING CODE

Example Part Number **737 - 044 - 520 - 206**

Series _____
 Total Number of Contacts _____
 Contact Code _____
 Contact Rows _____

Series 737

Total Number of Contacts ¹

005, 006,...043

010, 012,...086

Contact Row

Single Row

Dual Row

Contact Code ²

520 P.C. Tail Regular Point .175 (4.45)

522 P.C. Tail Regular Point .375 (9.53)

525 P.C. Tail High Point .175 (4.45)

540 Wire Wrap Regular Point .560 (14.22)

541 Wire Wrap Regular Point .750 (19.05)

545 Wire Wrap High Point .560 (14.22)

Contact Rows

106

206

Description

Single Row

Dual Row

Ordering Code Notes

- 1) All connector sizes up to 43 contacts single row / 86 contacts dual row are available upon request.
- 2) Make-before-break switching contacts, assembled in specific contact positions, are available upon request.

IN-CONTACT POLARIZING KEY

P/N 745-240-328



BETWEEN CONTACT POLARIZING KEY

P/N 306-240-318

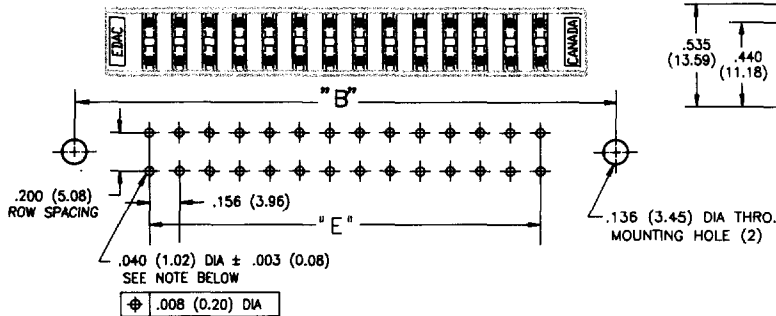
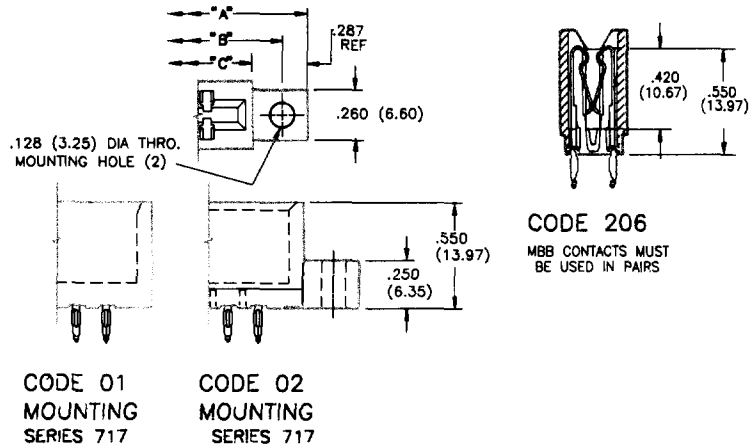
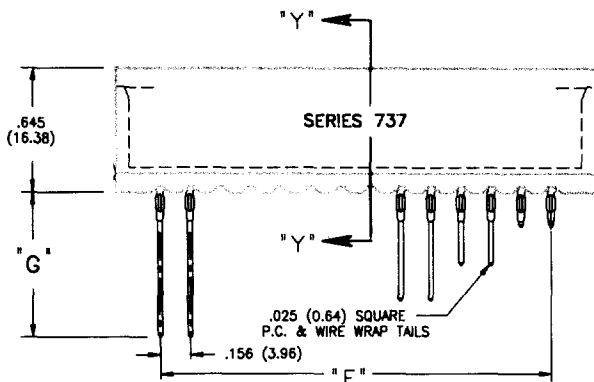
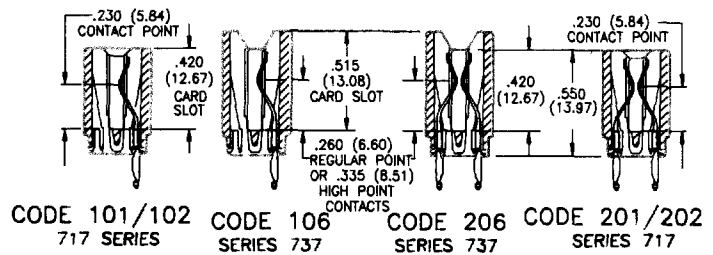
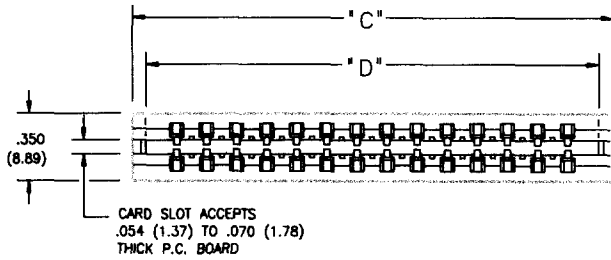


ULTRA-MATE CARD EDGE CONNECTOR SERIES 737

Compliant Pin, Contact Spacing .156" (3.96mm)

SECTIONS "Y" - "Y" CONTACT ROW OPTIONS

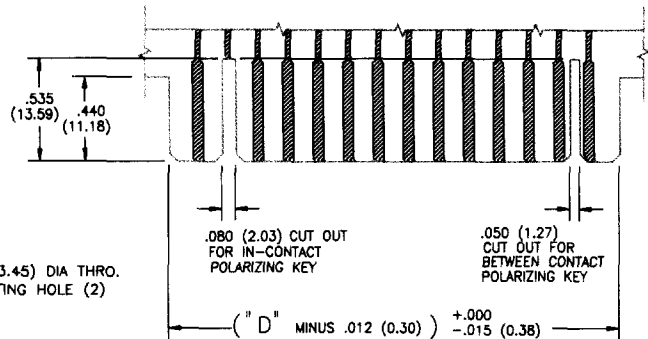
Single Row Version, Code 106, May Require Backup Springs Depending on the Application. Consult with EDAC for Details.



RECOMMENDED MOTHER BOARD HOLE PATTERN

TO OBTAIN OPTIMUM COMPLIANT SECTION PERFORMANCE,
DRILL HOLES .0453 ± .001 (1.15 ± 0.03) DIAMETER
COPPER PLATE, .001 (25.4 MICRONS) MINIMUM THICKNESS,
FOLLOWED BY TIN-LEAD PLATE TO PROVIDE FINISHED
HOLES .040 ± .003 (1.02 ± 0.08) DIAMETER

.128 (3.25) DIA THRO.
MOUNTING HOLE (2)



RECOMMENDED DAUGHTER BOARD

NUMBER OF CONTACTS		"C"		"D"		"E"	
Single	Dual	Inch	(mm)	Inch	(mm)	Inch	(mm)
5	10	1.090	(27.87)	0.944	(23.90)	.624	(15.85)
6	12	1.246	(31.65)	1.100	(27.94)	.780	(19.81)
10	20	1.870	(47.50)	1.724	(43.79)	1.404	(35.66)
15	30	2.650	(67.31)	2.504	(63.60)	2.184	(55.47)
18	36	3.118	(79.20)	2.972	(75.49)	2.652	(67.36)
20	40	3.430	(87.12)	3.284	(83.41)	2.964	(75.29)
22	44	3.742	(95.05)	3.596	(91.34)	3.276	(83.21)
25	50	4.210	(106.93)	4.064	(103.23)	3.744	(95.10)
28	56	4.678	(118.82)	4.532	(115.11)	4.212	(106.98)
30	60	4.990	(126.75)	4.844	(123.04)	4.524	(114.91)
31	62	5.146	(130.71)	5.000	(127.00)	4.680	(118.87)
33	66	5.458	(138.63)	5.312	(134.92)	4.992	(126.80)
36	72	5.926	(150.52)	5.780	(146.81)	5.460	(138.68)
43	86	7.018	(178.26)	6.872	(174.55)	6.552	(166.42)

Dimensions of Other Connector Sizes are Listed on Page 82