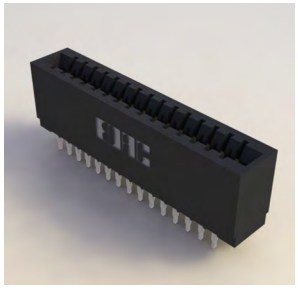
THE DATASHEET OF

745-068-520-106

745 SERIES

Press-Fit Card Edge Connectors 0.100” (2.54mm) Pitch

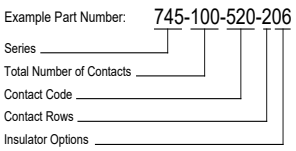
Features:



- **0.100” (2.54mm) contact spacing x 0.200” (5.08mm) row spacing**
- **Accepts 0.062” (1.57mm) nominal thickness P.C. board**
- **High profile insulator body, 0.645”(16.38mm) with notched ends option**
- **Contact termination options include P.C. tail, and 0.025” (0.64mm) square wire wrap**
- **Press-fit compliant section for gas tight reliable connection in plated through holes eliminates soldering operations**
- **Single or dual row configurations**
- **Accepts between contact and in-contact polarizing keys (special features if requested)**
- **Tools available for insulator and contact removal. Simple “flat rock” tooling is used for connector installation**
- **RoHS Compliant & UL Certified**

Specifications:

Insulator Material	Thermoplastic Polyphenylene Sulfide (PPS), UL 94V-0, Black Color
Contact Material	Copper Alloy
Contact Plating	30µ” Gold Plating on mating area and Tin Plating on tails with Nickel underplating all over
Current Rating	2 amps
Contact Resistance	10 milliohms maximum
Dielectric Withstanding Voltage	1200 V AC rms at sea level between adjacent contacts
Insulation Resistance	5000 megaohms minimum
Operating Temperature	-40°C to +105°C
Insertion Force	16 oz (4.45 N) maximum per contact pair when tested with .070” (1.78mm) thick gauge
Withdrawal Force	1 oz (0.28 N) minimum per contact pair when tested with .054” (1.37mm) thick gauge
Contact insertion into Hole	20 lbs (89 N) Maximum
Contact Retention in Hole	10 lbs (44 N) Minimum
Re-Insertability in same Hole	1 Time Maximum



Series:

745

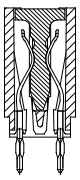
Total Number of Contacts:	**Contact Rows:**
005, 006, ... 075	Single Row
010, 012, ... 150	Dual Row

Contact Code:	**Description:**	**Contact Point:**	**Tail Length "G":**
520	P.C. Tail	Regular Point	.190 (4.83)
522	P.C. Tail	Regular Point	.375 (9.53)
525	P.C. Tail	High Point	.190 (4.83)
540	Wire Wrap	Regular Point	.560 (14.22)
541	Wire Wrap	Regular Point	.750 (19.05)
545	Wire Wrap	High Point	.560 (14.22)
560	Make Before Break (MBB) Contacts		.190 (4.83)

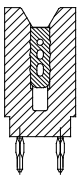
Contact Rows:	**Description:**
1	Single Row
2	Dual Row

Insulator Options:	**Description:**
01	.645”(16.38mm) Full Height Ends
06	.550”(13.97mm) Notched Ends

IN-CONTACT POLARIZING KEY
P/N 745-240-328



BETWEEN CONTACT POLARIZING KEY
P/N 341-240-318



Ordering Code Notes:

1) All connector sizes up to 75 contacts single row / 150 contacts dual row are available upon request.
2) Make-Before-Break switching contacts, assembled in specific contact positions are available upon request.

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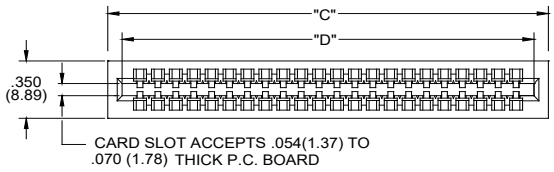
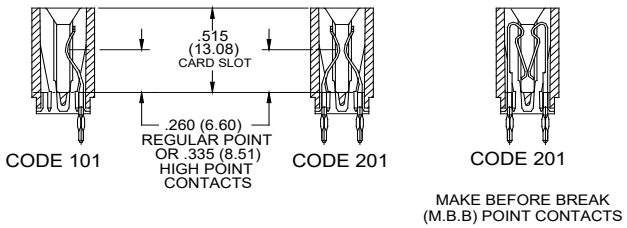
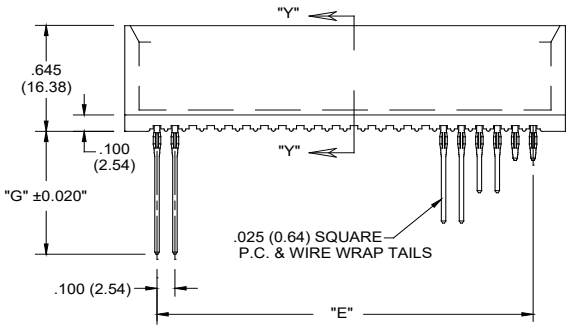
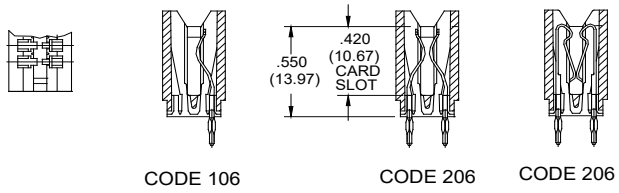
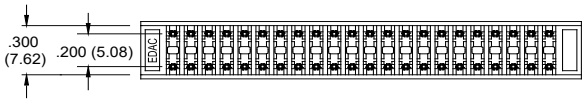


SECTIONS "Y" – "Y"
CONTACT ROWS & INSULATOR OPTIONS

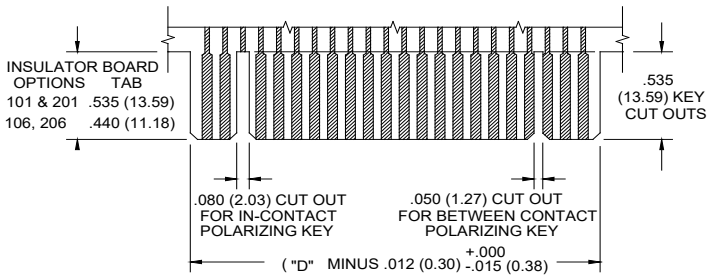


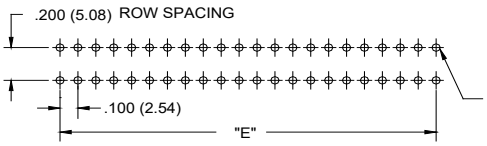






RECOMMENDED DAUGHTER BOARD





RECOMMENDED MOTHER BOARD HOLE PATTERN

.040 (1.02) DIA ± .003 (0.08)
SEE NOTE BELOW
⌖ .008 (0.20) DIA

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 PLATE TO PROVIDE FINISHED
HOLES .040 ± .003 (1.02 ± 0.08) DIAMETER

NUMBER OF CONTACTS		"C"		"D"		"E"	
Single	Double	Inch	mm	Inch	mm	Inch	mm
5	10	0.760	19.30	0.600	15.24	0.400	10.16
10	20	1.260	32.00	4.400	111.76	0.900	22.86
15	30	1.760	44.70	1.600	40.64	1.400	35.56
18	36	2.060	52.32	1.900	48.26	1.700	43.18
22	44	2.460	62.48	2.300	58.42	2.100	53.34
25	50	2.760	70.10	2.600	66.04	2.400	60.96
28	56	3.060	77.72	2.900	73.66	2.700	68.58
30	60	3.260	82.80	3.100	78.74	2.900	73.66
31	62	3.360	85.34	3.200	81.28	3.000	76.20
35	70	3.760	95.50	3.600	91.44	3.400	86.36
36	72	3.860	98.04	3.700	93.98	3.500	88.90
43	86	4.560	115.82	4.400	111.76	4.200	106.68
50	100	5.260	133.60	5.100	129.54	4.900	124.46
75	150	7.760	197.10	7.600	193.04	7.400	187.96

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- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management