

REVISONS		DATE	BY	APP'D
AD	00			
A3	REVISED PER ECO-10-019941	16FEB11	HMR	MM



FIG. 1



FIG. 2



FIG. 3
(8 POS ONLY)



.210/.180
(STD .125 PC LEAD)
.265/.235
(LONG .180 PC LEAD)



P.C.B. HOLE LAYOUT
TOLERANCE $\pm .003$

1 **MATERIALS:**
INSULATOR: POLYESTER, UL RATED 94V-0
CONTACT:
800 & 1800 SERIES CONTACT: 4 BEAM, COPPER ALLOY, MACHINED (PREMIUM VERSION) OR FORMED (ECONOMY VERSION, WITH SUFFIX -ES OR -ESL).
800 SERIES HIGH RETENTION CONTACT: 4 BEAM, COPPER ALLOY, MACHINED.
1000 SERIES CONTACT: 6 BEAM, COPPER ALLOY, MACHINED (LOW INSERTION FORCE SERIES)
SLEEVE- ALL SERIES: COPPER ALLOY, FORMED

2 **ELECTRICAL:**
CONTACT RESISTANCE: 10 MILLIOHMS MAX
CONTACT RATING: 3 AMPS
CAPACITANCE: 1.0 pF PER MIL-STD-202, METHOD 305
INSULATION RESISTANCE: 5000 OHMS MIN @ 500 VDC PER MIL-STD-1344, METHOD 3003.1
DIELECTRIC WITHSTANDING VOLTAGE: 1000 VOLTS (RMS) PER MIL-STD-1344, METHOD 3001.1

3 **MECHANICAL:**
AFTER INSERTION FORCE: 37 GRAMS AVG (6 BEAM CONTACT) 134 GRAMS AVG (4 BEAM PREMIUM) 179 GRAMS AVG (4 BEAM ECONOMY) AND 334 GRAMS AVG (HIGH RETENTION)
AFTER WITHDRAWAL FORCE: 15 GRAMS AVG (6 BEAM CONTACT) 63 GRAMS AVG (4 BEAM PREMIUM OR ECONOMY) AND 245 GRAMS AVG (HIGH RETENTION)

4 **ENVIRONMENTAL:**
OPERATING TEMPERATURE: -55°C TO -105°C

5 **PLATING:** 25 μ MIN GOLD OVER 50 μ MIN NICKEL CONTACT WITH 5 μ MIN GOLD OVER 50 μ MIN NICKEL SLEEVE.

6 **PLATING:** 25 μ MIN GOLD OVER 50 μ MIN NICKEL CONTACT WITH 80 μ MIN TIN-LEAD OVER 50 μ MIN COPPER SLEEVE.

7 **PLATING:** 80 μ MIN TIN-LEAD OVER 75 μ MIN COPPER CONTACT WITH 180 μ MIN TIN-LEAD OVER 75 μ MIN NICKEL SLEEVE.

8 **PLATING:** 5 μ MIN GOLD FLASH OVER 50 μ MIN NICKEL CONTACT WITH 5 μ MIN GOLD FLASH OVER 50 μ MIN NICKEL SLEEVE.

9 **PLATING:** 5 μ MIN GOLD FLASH OVER 50 μ MIN NICKEL CONTACT WITH 80 μ MIN TIN-LEAD OVER 50 μ MIN COPPER SLEEVE.

10 **PLATING:** 7.5 μ MIN GOLD OVER 50 μ MIN NICKEL CONTACT WITH 80 μ MIN TIN-LEAD OVER 50 μ MIN COPPER SLEEVE.

11 PRELIMINARY PART - NOT RELEASED FOR PRODUCTION.

12 806-AGXXD-XXX SERIES IS SUPERSEDED BY 506-AGXXD-XXX SERIES (REFER TO CUSTOMER DRAWING 1437532-2)

13 **PLATING:** 25 μ MIN GOLD OVER 50 μ MIN NICKEL CONTACT WITH 80 μ MIN MATTE TIN OVER 50 μ MIN COPPER SLEEVE.

14 **PLATING:** 80 μ MIN MATTE TIN OVER 75 μ MIN COPPER CONTACT WITH 180 μ MIN MATTE TIN OVER 75 μ MIN NICKEL SLEEVE.

15 **PLATING:** 5 μ MIN GOLD FLASH OVER 50 μ MIN NICKEL CONTACT WITH 80 μ MIN MATTE TIN OVER 50 μ MIN COPPER SLEEVE.

16 **PLATING:** 7.5 μ MIN GOLD OVER 50 μ MIN NICKEL CONTACT WITH 80 μ MIN MATTE TIN OVER 50 μ MIN COPPER SLEEVE.

17 **OBsolete PARTS:** OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

8 XX - AX XXX D - XXX - LF
800 SERIES POSITIONS
LF = LEAD FREE
BLANK = MACHINED CONTACT
ES = FORMED CONTACT, GOLD PLATE, NOTE 1
ESL = FORMED CONTACT, LOW GOLD PLATE, 5 μ IN MAX
D = PC TAIL STANDARD
LSG STYLE AND TAIL CONFIGURATION
AG = INSULATOR
AR = INSULATOR WITH RAILS
(ALMOST RUN THE LENGTH UNDER THE INSULATOR INSIDE THE CONTACT ROWS, .075 REF HIGH & .045 REF WIDE)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DIN R BROWN 06MAY04	Tyco Electronics Tyco Electronics Corporation Harrisburg, Pa 17105-3608
DIMENSIONS: INCHES		CHK K WRIGHT 06MAY04	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APP'D K WRIGHT 06MAY04	NAME
0 PLC	\pm -	PRODUCT SPEC	DIP SOCKET, 800 SERIES
1 PLC	\pm -	APPLICATION SPEC	SIZE CAGE CODE DRAWING NO
2 PLC	\pm -	WEIGHT	A1 00779 C=1437539-2
3 PLC	\pm .005	CUSTOMER DRAWING	SCALE 1:1 SHEET 1 OF 4 REV A3
4 PLC	\pm -		
ANGLES	\pm -		

800 SERIES MACHINED PREMIUM CONTACT LEAD FREE PART NUMBER TABLE

COMMENTS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.
						864-AG34D-LF	5-6437538-4
						848-AG34D-LF	9-1437538-5
OBSOLETE						840-AR11D-LF	8-1437538-6
						840-AG43D-LF	8-1437538-4
						840-AG34D-LF	8-1437538-3
						832-AG38D-LF	9-6437533-4
						832-AG34D-LF	2-6437538-5
OBSOLETE						828-AR12D-LF	6-6437538-9
OBSOLETE						828-AR11D-LF	1-6437538-6
						828-AG43D-LF	6437538-4
						828-AG34D-LF	1-6437538-3
OBSOLETE						824-AR31D-LF	5-6437538-1
OBSOLETE						824-AR11D-LF	9-6437537-9
						824-AG47D-LF	9-6437537-7
OBSOLETE						824-AG446D-LF	9-6437537-6
						824-AG34D-LF	9-6437537-5
						824-AG338D-LF	9-6437537-4
						824-AG334D-LF	9-6437537-3
						820-AG43D-LF	7-6437537-3
						820-AG34D-LF	7-6437537-2
OBSOLETE						818-AR44D-LF	4-6437539-9
OBSOLETE						818-AR11D-LF	6-6437537-2
OBSOLETE						816-AR11D-LF	5-6437537-4
						816-AG34D-LF	5-6437537-1
OBSOLETE						814-AR11D-LF	3-6437537-5
						814-AG43D-LF	3-6437537-2
						814-AG34D-LF	3-6437537-1
OBSOLETE						808-AR11D-LF	1-6437537-9
						808-AG43D-LF	6437537-5
						808-AG34D-LF	6437537-4

800 SERIES MACHINED PREMIUM CONTACT PART NUMBER TABLE

COMMENTS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.
						824-AR31D	0-1437538-1
OBSOLETE						824-AR11D	9-1437537-9
OBSOLETE						824-AG66D	9-1437537-8
						824-AG47D	9-1437537-7
						824-AG45D	6-1437538-6
						824-AG446D	9-1437537-6
						824-AG34D	9-1437537-5
						824-AG33D	8-1437539-2
						824-AG338D	9-1437537-4
						824-AG334D	9-1437537-3
						824-AG32D	9-1437537-2
						824-AG31D	8-1437537-9
						824-AG30D	8-1437537-7
						824-AG14D	8-1437537-6
						824-AG12D	8-1437537-5
						824-AG11D	8-1437537-2
						824-AG10D	8-1437537-1
						822-AG11D	7-1437537-8
						822-AG10D	7-1437537-7
						820-AR11D	7-1437537-6
						820-AG45D	7-1437537-5
						820-AG44D	7-1437537-4
						820-AG43D	7-1437537-3
						820-AG34D	7-1437537-2
						820-AG12D	6-1437537-9
						820-AG11D	6-1437537-6
						820-AG10D	6-1437537-4
						818-AR44D	4-1437539-9
						818-AR11D	6-1437537-2
						818-AG44D	6-1437537-1
						818-AG34D	5-1437538-8
						818-AG12D	6-1437537-0
						818-AG11D	5-1437537-7
						818-AG10D	5-1437537-6
						816-AR11D	5-1437537-4
						816-AG45D	5-1437537-3
						816-AG44D	5-1437537-2
						816-AG34D	5-1437537-1
						816-AG33D	5-1437537-0
						816-AG12D	4-1437537-6
						816-AG11D	4-1437537-0
						816-AG10D	3-1437537-7
						814-AR44D	5-1437533-2
						814-AR11D	3-1437537-5
						814-AG45D	3-1437537-4
						814-AG44D	3-1437537-3
						814-AG43D	3-1437537-2
						814-AG34D	3-1437537-1
						814-AG12D	2-1437537-9
						814-AG11D	2-1437537-4
						814-AG10D	2-1437537-1
						808-AR11D	1-1437537-9
						808-AG45D	1-1437537-8
						808-AG44D	1-1437537-7
						808-AG43D	1-1437537-5
						808-AG34D	1-1437537-4
						808-AG12D	1-1437537-2
						808-AG11D	0-1437537-8
						808-AG10D	0-1437537-5
						806-AG11D	2-1437533-5
						806-AG10D	2-1437533-3

800 SERIES MACHINED PREMIUM CONTACT PART NUMBER TABLE

COMMENTS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.
						864-AG34D	5-1437538-4
						864-AG12D	5-1437538-2
						864-AG11D	4-1437538-8
						864-AG10D	3-1437540-1
OBSOLETE						848-AR11D	4-1437538-6
OBSOLETE						848-AG34D	4-1437538-5
OBSOLETE						848-AG12D	4-1437538-4
						848-AG11D	4-1437538-1
						848-AG10D	3-1437538-9
OBSOLETE						842-AG12D	3-1437538-8
OBSOLETE						842-AG11D	3-1437538-7
						840-AR11D	3-1437538-6
OBSOLETE						840-AG44D	3-1437538-5
						840-AG43D	3-1437538-4
						840-AG34D	3-1437538-3
						840-AG12D	3-1437538-2
						840-AG11D	3-1437538-0
						840-AG10D	2-1437538-9
						836-AG11D	2-1437538-7
						832-AR12D	9-1437533-7
						832-AG38D	9-1437533-4
OBSOLETE						832-AG34D	2-1437538-5
						832-AG12D	2-1437538-4
						832-AG11D	2-1437538-2
						832-AG10D	2-1437538-1
						828-AR12D	6-1437538-9
OBSOLETE						828-AR11D	1-1437538-6
OBSOLETE						828-AG44D	1-1437538-5
OBSOLETE						828-AG43D	1-1437538-4
						828-AG34D	1-1437538-3
						828-AG12D	1-1437538-0
						828-AG11D	0-1437538-4
						828-AG10D	0-1437538-3

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DIN R BROWN 06MAY04
 CHK K WRIGHT 06MAY04
 APVD K WRIGHT 06MAY04

Tyco Electronics Tyco Electronics Corporation
 Harrisburg, Pa 17105-3608

PRODUCT SPEC
 NAME: DIP SOCKET, 800 SERIES

SIZE: A1 CASE CODE: 00779 DRAWING NO: 1437539-2
 WEIGHT: CUSTOMER DRAWING

RESTRICTED TO: 2 OF 4 SHEET REV: A3

SCALE: 1:1

800 SERIES STAMPED ECONOMY CONTACT LEAD FREE PART NUMBER TABLE

Table with columns for comments, plating, C, B, A, FIG, AUGAT PART NO., and TE PART NO. Rows include various part numbers like 848-AR11D-ES-LF, 840-AR12D-ES-LF, etc.

800 SERIES STAMPED ECONOMY CONTACT PART NUMBER TABLE

Table with columns for comments, plating, C, B, A, FIG, AUGAT PART NO., and TE PART NO. Rows include various part numbers like 824-AR47D-ESL, 824-AR44D-ESL, etc.

800 SERIES STAMPED ECONOMY CONTACT PART NUMBER TABLE

Table with columns for comments, plating, C, B, A, FIG, AUGAT PART NO., and TE PART NO. Rows include various part numbers like 864-AG12D-ES, 864-AG11D-ESL, etc.

THIS DRAWING IS A CONTROLLED DOCUMENT. Tyco Electronics Corporation, Harrisburg, Pa 17105-3608. DIMENSIONS: INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±.005, 1 PLC ±.005, 2 PLC ±.005, 3 PLC ±.005, 4 PLC ±.005. MATERIAL: FINISH. WEIGHT: A1 00779. CUSTOMER DRAWING. SCALE: 1:1. SHEET: 3 of 4. REV: A3.

1000 SERIES MACHINED PREMIUM CONTACT, LOW INSERTION FORCE PART NUMBER TABLE

COMMENTS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.
S/B 4-1437538-8	6	.895/.905	1.000	3.200	2	1064-AG11D	2-1437529-4
S/B 3-1437540-1	5	.895/.905	1.000	3.200	2	1064-AG10D	2-1437529-3
S/B 3-1437538-0	6	.595/.605	.700	2.000	2	1040-AG11D	2-1437529-2
S/B 2-1437538-2	6	.595/.605	.700	1.600	2	1032-AG11D	2-1437529-1
S/B 1437538-4	6	.595/.605	.700	1.400	1	1028-AG11D	1-1437529-9
S/B 8-1437537-9	6	.295/.305	.400	1.200	1	1024-AG31D	1-1437529-8
S/B 8-1437537-2	6	.595/.605	.700	1.200	1	1024-AG11D	1-1437529-6
S/B 8-1437537-1	5	.595/.605	.700	1.200	1	1024-AG10D	1-1437529-5
S/B 6-1437537-6	6	.295/.305	.400	1.000	1	1020-AG11D	1-1437529-4
S/B 6-1437537-4	5	.295/.305	.400	1.000	1	1020-AG10D	1-1437529-3
S/B 5-1437537-7	6	.295/.305	.400	.900	1	1018-AG11D	1-1437529-2
S/B 5-1437537-6	5	.295/.305	.400	.900	1	1018-AG10D	1-1437529-1
S/B 4-1437537-0	6	.295/.305	.400	.800	1	1016-AG11D	1-1437529-0
S/B 3-1437537-7	5	.295/.305	.400	.800	1	1016-AG10D	0-1437529-9
S/B 2-1437537-4	6	.295/.305	.400	.700	1	1014-AG11D	0-1437529-7
S/B 2-1437537-1	5	.295/.305	.400	.700	1	1014-AG10D	0-1437529-6
S/B 1437537-8	6	.295/.305	.400	.400	3	1008-AG11D	0-1437529-5
S/B 1437537-5	5	.295/.305	.400	.400	3	1008-AG10D	0-1437529-4

1800 SERIES MACHINED PREMIUM CONTACT, LOW GOLD PART NUMBER TABLE

	S/B 5-1437538-0	10	.895/.905	1.000	3.200	2	1864-AG111D	5-1437529-1
	S/B 6-1437540-2 W/RAILS	10	.595/.605	.700	2.400	2	1848-AR111D	5-1437529-0
	S/B 4-1437538-2	10	.595/.605	.700	2.100	2	1848-AG111D	4-1437529-9
	S/B 2-1437540-4	10	.595/.605	.700	2.100	2	1842-AG111D	4-1437529-8
	S/B 2-1437540-2 W/RAILS	10	.595/.605	.700	2.000	2	1840-AR111D	4-1437529-7
	S/B 1-1437540-7	10	.595/.605	.700	2.000	2	1840-AG111D	4-1437529-6
	S/B 1437540-3	10	.595/.605	.700	1.600	2	1832-AG111D	4-1437529-5
	S/B 9-1437539-7 W/RAILS	10	.595/.605	.700	1.400	1	1828-AR111D	4-1437529-4
	S/B 9-1437539-2	10	.595/.605	.700	1.400	1	1828-AG111D	4-1437529-3
	S/B 3-1437540-9 W/RAILS	10	.295/.305	.400	1.200	1	1824-AR131D	4-1437529-2
OBSOLETE	S/B 8-1437539-6 W/RAILS	10	.595/.605	.700	1.200	1	1824-AR111D	4-1437529-1
OBSOLETE	S/B 8-1437539-4	10	.395/.405	.500	1.200	1	1824-AG141D	4-1437529-0
	S/B 7-1437539-7	10	.295/.305	.400	1.200	1	1824-AG131D	3-1437529-9
	S/B 7-1437539-0	10	.595/.605	.700	1.200	1	1824-AG111D	3-1437529-8
	S/B 6-1437539-3	10	.395/.405	.500	1.100	1	1822-AG111D	3-1437529-7
	S/B 5-1437539-8 W/RAILS	10	.295/.305	.400	1.000	1	1820-AR111D	3-1437529-6
SUPERSEDED	S/B 5-1437539-3	10	.295/.305	.400	1.000	1	1820-AG111D	3-1437529-5
	S/B 4-1437539-8 W/RAILS	10	.295/.305	.400	.900	1	1818-AR111D	3-1437529-5
	S/B 4-1437539-4	10	.295/.305	.400	.900	1	1818-AG111D	3-1437529-3
OBSOLETE	S/B 3-1437539-5 W/RAILS	10	.295/.305	.400	.800	1	1816-AR111D	3-1437529-2
	S/B 2-1437539-9	10	.295/.305	.400	.800	1	1816-AG111D	3-1437529-1
	S/B 2-1437539-3 W/RAILS	10	.295/.305	.400	.700	1	1814-AR111D	3-1437529-0
	S/B 1-1437539-7	10	.295/.305	.400	.700	1	1814-AG111D	2-1437529-9
	S/B 1-1437539-1 W/RAILS	10	.295/.305	.400	.400	3	1808-AR111D	2-1437529-6
	S/B 1437539-6	10	.295/.305	.400	.400	3	1808-AG111D	2-1437529-5
OBSOLETE	S/B 1437539-8	10	.295/.305	.400	.300		1806-AG111D	0-1437535-2

THIS DRAWING IS A CONTROLLED DOCUMENT.		DIN R BROWN 06MAY04	Tyco Electronics Corporation Harrisburg, Pa 17105-3608	
DIMENSIONS: INCHES		CHK K WRIGHT 06MAY04	Tyco Electronics	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD K WRIGHT 06MAY04	NAME	
0 PLC ± -		PRODUCT SPEC		
1 PLC ± -		APPLICATION SPEC		
2 PLC ± -		SIZE CASE CODE DRAWING NO		
3 PLC ± .005		WEIGHT		
4 PLC ± -		A1 00779 1437539-2		
ANGLES ± -		CUSTOMER DRAWING		
MATERIAL - FINISH -		SCALE 1:1 SHEET 4 OF 4 REV A3		