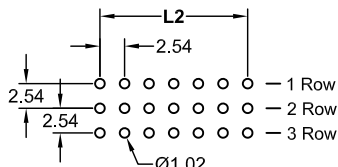
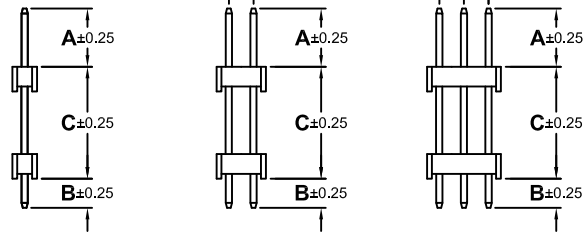
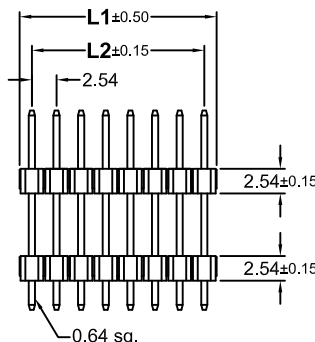
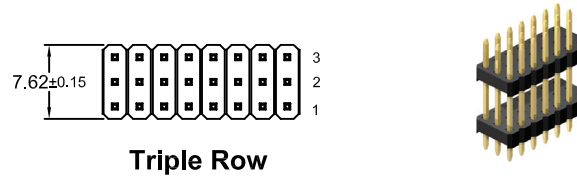
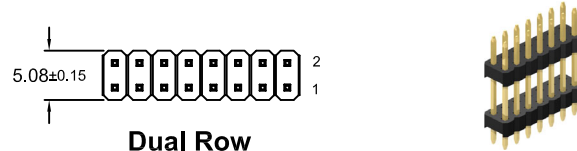
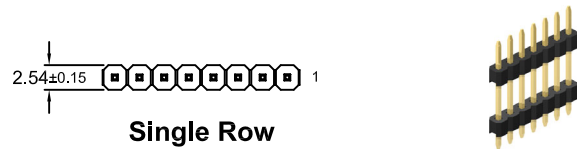


No. of Pins			Dimension (mm)	
Single Row	Dual Row	Triple Row	L1	L2
001	002		2,54	
002	004		5,08	2,54
003	006	009	7,62	5,08
004	008	012	10,16	7,62
005	010	015	12,70	10,16
006	012	018	15,24	12,70
007	014	021	17,78	15,24
008	016	024	20,32	17,78
009	018	027	22,86	20,32
010	020	030	25,40	22,86
011	022	033	27,94	25,40
012	024	036	30,48	27,94
013	026	039	33,02	30,48
014	028	042	35,56	33,02
015	030	045	38,10	35,56
016	032	048	40,64	38,10
017	034	051	43,18	40,64
018	036	054	45,72	43,18
019	038	057	48,26	45,72
020	040	060	50,80	48,26
021	042	063	53,34	50,80
022	044	066	55,88	53,34
023	046	069	58,42	55,88
024	048	072	60,96	58,42
025	050	075	63,50	60,96
026	052	078	66,04	63,50
027	054	081	68,58	66,04
028	056	084	71,12	68,58
029	058	087	73,66	71,12
030	060	090	76,20	73,66
031	062	093	78,74	76,20
032	064	096	81,28	78,74
033	066	099	83,82	81,28
034	068	102	86,36	83,82
035	070	105	88,90	86,36
036	072	108	91,44	88,90
037	074	111	93,98	91,44
038	076	114	96,52	93,98
039	078	117	99,06	96,52
040	080	120	101,60	99,06



Recommended PCB Layout
(Tolerance ±0.05)

Order Code

SPx-xxx-SX xxx/xx-xx

- Rows
- Single Row = 1
 - Dual Row = 2
 - Triple Row = 3
- No. of Pin
- Single Row = 001 to 040
 - Dual Row = 002 to 080
 - Triple Row = 009 to 120
- Plating
- Pin code**
- See Table on sheet 2/5 & 3/5 & 4/5 & 5/5
- 55 = Gold flash (Standard)
 - 66 = 10µ" Gold
 - 77 = 15µ" Gold
 - 88 = 30µ" Gold
 - 99 = Tin
- Duplex plating
- 95 = Tin/Gold flash
 - 96 = Tin/10µ" Gold
 - 97 = Tin/15µ" Gold
 - 98 = Tin/30µ" Gold
- Execution
- S = P.B.T Insulator 2.54mm (standard)
 - SL = if distance "C" ≤ 5.00mm (Insulator 1.50mm)
 - SH = PA6T Insulator 2.54mm
 - SHL = if distance "C" ≤ 5.00mm (Insulator 1.50mm)
 - SN = PA9T Insulator 2.54mm
 - SZ = LCP Insulator 2.54mm

Material

Contact: Brass

Plating: Gold, Tin or Duplex
*Duplex = Tin on solder area, Gold plated on contact area

Insulator: PBT, PA6T or PA9T (black) UL 94V-0

Operating temperature: -40°C to +105°C

Specifications

Electrical

Current rating: 3A

Insulation resistance: 1000MΩ min.

Contact resistance: 20mΩ max.

Withstanding voltage: 500V AC / Minute



REV.	DESCRIPTION	DATE	DRAWN
A	New	09.04.2008	Lyndon
J17	Add Pin Code "240/11"	04.12.2018	Cherry
J18	general update	11.04.2019	Ronny
J19	Add Pin Code "240/11" & "408/08"	24.05.2019	Cherry

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UNIT	GENERAL TOLERANCE		DRAWN	DATE	DWG. NO.	SHEET 1/2
mm	X.° ±	X. ±	Lyndon	09.04.2008	SP-S	REV. J19
SCALE Free	.X° ±	.X ±	CHECK Ronny	DATE 27.06.2019	SERIES NO.	
	.XX° ±	.XX ± 0.25	APPROVE Hogi	DATE 27.06.2019	SPx-xxx-SXxxx/xx-xx	
	.XXX° ±	.XXX ±				

Pin Header Board Spacer
2.54mm Pitch -THT- straight
Single, Dual & Triple Row

Pin-Code	Pin length	Dim."A"	Dim."B"	Dim."C"	Pin-Code	Pin length	Dim."A"	Dim."B"	Dim."C"	Pin-Code	Pin length	Dim."A"	Dim."B"	Dim."C"
	mm	mm	mm	mm		mm	mm	mm	mm		mm	mm	mm	mm
265/05	26.50	6.50	17.00	3.00	155/07	15.50	5.80	2.70	7.00	132/02	13.20	2.10	2.10	9.00
142/15	14.20	7.50	3.40	3.30	160/04	16.00	6.00	3.00	7.00	171/01	17.10	4.80	3.30	9.00
141/15	14.10	7.40	3.20	3.50	160/08	16.00	6.20	2.80	7.00	177/03	17.70	5.90	2.80	9.00
122/02	12.20	4.10	4.10	4.00	180/09	18.00	8.00	3.00	7.00	203/08	20.30	8.00	3.30	9.00
160/02	16.00	6.00	6.00	4.00	175/04	17.50	8.50	2.00	7.00	180/01	18.00	6.00	3.00	9.00
108/15	10.80	3.00	3.00	4.80	185/02	18.50	8.50	3.00	7.00	186/04	18.60	6.30	3.30	9.00
147/11	14.70	6.50	3.30	4.90	200/02	20.00	10.00	3.00	7.00	187/03	18.70	6.10	3.60	9.00
110/04	11.00	3.00	3.00	5.00	121/02	12.10	2.50	2.50	7.10	216/08	21.60	6.30	6.30	9.00
113/01	11.30	3.00	3.30	5.00	160/03	16.00	5.80	2.80	7.40	236/01	23.60	7.60	7.00	9.00
113/03	11.30	4.20	2.10	5.00	176/01	17.60	3.20	7.00	7.40	216/11	21.60	9.00	3.60	9.00
249/04	24.90	16.60	3.30	5.00	135/09	13.50	3.00	3.00	7.50	249/11	24.90	13.00	2.90	9.00
131/01	13.10	4.00	4.00	5.10	155/05	15.50	3.15	4.85	7.50	139/02	13.90	2.30	2.10	9.50
135/13	13.50	5.60	2.80	5.10	141/02	14.10	3.50	3.00	7.60	177/05	17.70	4.90	3.30	9.50
141/03	14.10	6.00	3.00	5.10	342/06	34.20	6.60	20.00	7.60	249/10	24.90	12.00	3.40	9.50
147/13	14.70	6.60	3.00	5.10	147/12	14.70	3.40	3.40	7.90	211/05	21.00	8.20	3.30	9.60
185/07	18.50	10.60	2.80	5.10	177/11	17.70	6.50	3.30	7.90	185/09	18.50	6.00	2.80	9.70
125/14	12.50	4.00	3.00	5.50	190/02	19.00	3.00	8.00	8.00	190/03	19.00	6.00	3.30	9.70
155/01	15.50	7.00	3.00	5.50	144/01	14.40	3.20	3.20	8.00	240/07	24.00	11.00	3.30	9.70
110/01	11.00	2.50	2.50	6.00	164/05	16.40	5.90	2.50	8.00	240/11	24.00	11.30	3.00	9.70
116/06	11.60	2.80	2.80	6.00	173/01	17.30	6.00	3.30	8.00	160/01	16.00	3.00	3.00	10.00
122/06	12.20	3.40	2.80	6.00	177/09	17.70	6.80	2.90	8.00	164/03	16.40	3.20	3.20	10.00
126/04	12.60	3.50	3.10	6.00	183/01	18.30	7.80	2.50	8.00	180/03	18.00	5.00	3.00	10.00
135/07	13.50	4.70	2.80	6.00	189/03	18.90	7.90	3.00	8.00	194/01	19.40	6.40	3.00	10.00
184/14	18.40	9.00	3.40	6.00	240/10	24.00	8.00	8.00	8.00	230/03	23.00	10.00	3.00	10.00
240/09	24.00	9.00	9.00	6.00	290/13	29.00	10.50	10.50	8.00	190/06	19.00	5.60	3.30	10.10
216/16	21.60	12.00	3.60	6.00	360/03	36.00	25.00	3.00	8.00	200/01	20.00	6.50	3.30	10.20
249/09	24.90	15.00	3.90	6.00	185/12	18.50	7.60	2.80	8.10	211/03	21.10	3.90	7.00	10.20
120/03	12.00	2.90	3.00	6.10	254/01	25.40	8.60	8.60	8.20	198/02	19.40	6.00	3.00	10.40
146/01	14.60	5.90	2.60	6.10	137/01	13.70	3.00	2.30	8.40	216/13	21.60	7.80	3.30	10.50
211/02	21.10	10.40	4.50	6.20	186/05	18.60	6.60	3.60	8.40	184/13	18.40	5.30	2.50	10.60
120/07	12.00	2.80	2.80	6.40	154/01	15.40	3.20	3.70	8.50	198/03	19.80	6.50	2.70	10.60
135/14	13.50	4.30	2.80	6.40	155/11	15.50	3.50	3.50	8.50	207/01	20.70	7.00	3.10	10.60
189/01	18.90	9.50	3.00	6.40	160/09	16.00	4.50	3.00	8.50	187/01	18.70	4.00	4.00	10.70
123/03	12.30	2.90	2.90	6.50	210/03	21.00	9.00	3.50	8.50	150/08	15.00	2.00	2.00	11.00
135/11	13.50	3.50	3.50	6.50	249/05	24.90	13.10	3.30	8.50	155/12	15.50	2.00	2.50	11.00
147/10	14.70	4.90	3.30	6.50	260/01	26.00	13.90	3.60	8.50	160/07	16.00	2.50	2.50	11.00
159/07	15.90	6.00	3.30	6.60	147/08	14.70	3.00	3.00	8.70	183/02	18.30	3.60	3.70	11.00
164/01	16.40	6.50	3.30	6.60	177/08	17.70	5.70	3.30	8.70	210/07	21.00	4.90	4.90	11.20
189/02	18.90	6.00	6.00	6.90	158/01	15.80	4.00	3.00	8.80	211/04	21.10	6.00	3.90	11.20
140/15	14.00	4.50	2.50	7.00	209/06	20.90	6.00	6.00	8.90	219/02	21.90	7.30	3.30	11.30

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UNIT mm	GENERAL TOLERANCE		DRAWN Lyndon	DATE 09.04.2008	DWG. NO. SP-S	SHEET 2/5	
	SCALE Free	X.° ±				X. ±	REV. J19
		.X° ±				.X ±	
		.XX° ±				.XX ±	
	.XXX° ±	.XXX ±	APPROVE Fagi	DATE 27.06.2019	SERIES NO. SPx-xxx-SXxxx/xx-xx		

Pin-Code for for Pin Header
2.54mm Pitch -THT-
 Board Spacer straight
 Single, Dual & Triple Row

	1	2	3	4	5	6	7	8							
A	Pin-Code	Pin length mm	Dim."A" mm	Dim."B" mm	Dim."C" mm	Pin-Code	Pin length mm	Dim."A" mm	Dim."B" mm	Dim."C" mm	Pin-Code	Pin length mm	Dim."A" mm	Dim."B" mm	Dim."C" mm
	177/04	17.70	3.00	3.25	11.40	202/01	20.20	3.10	3.10	14.00	250/01	25.00	6.50	3.00	15.50
	211/08	21.10	6.00	3.70	11.40	211/11	21.10	4.30	2.80	14.00	255/03	25.50	7.00	3.00	15.50
	288/02	28.80	8.70	8.70	11.40	230/04	23.00	3.00	6.00	14.00	267/01	26.70	7.80	3.40	15.50
B	190/01	19.00	4.20	3.30	11.50	280/05	28.00	4.00	10.00	14.00	270/07	27.00	8.50	3.00	15.50
	196/01	19.60	5.00	3.10	11.50	230/01	23.00	6.00	3.00	14.00	308/01	30.80	12.00	3.30	15.50
	198/04	19.80	5.50	2.80	11.50	249/14	24.90	7.60	3.30	14.00	248/01	24.80	6.10	3.00	15.70
	216/09	21.60	5.90	4.20	11.50	262/04	26.20	9.20	2.80	14.20	261/99	26.10	7.60	2.80	15.70
	216/10	21.60	6.50	3.60	11.50	240/04	24.00	6.00	3.60	14.40	235/05	23.50	6.15	1.50	15.85
	288/01	28.80	14.40	2.80	11.60	279/02	27.90	10.00	3.50	14.40	240/06	24.00	6.15	2.00	15.85
C	173/02	17.30	3.00	2.50	11.80	228/03	22.80	5.50	2.80	14.50	245/04	24.50	6.15	2.50	15.85
	183/03	18.30	3.00	3.50	11.80	280/04	28.00	6.75	6.75	14.50	210/09	21.00	2.50	2.50	16.00
	198/01	19.80	5.50	2.50	11.80	290/08	29.00	7.25	7.25	14.50	216/14	21.60	2.80	2.80	16.00
	177/06	17.70	2.50	3.35	11.85	244/04	24.40	7.30	2.60	14.50	220/01	22.00	3.00	3.00	16.00
	239/01	23.90	6.00	6.00	11.90	185/11	18.54	1.40	2.54	14.60	238/02	23.80	5.00	2.80	16.00
	180/02	18.00	3.00	3.00	12.00	235/02	23.50	5.80	3.00	14.70	250/04	25.00	6.00	3.00	16.00
	263/05	26.30	7.15	7.15	12.00	238/01	23.80	5.90	3.20	14.70	258/04	25.80	6.00	3.80	16.00
	225/03	22.50	7.50	3.00	12.00	290/06	29.00	11.30	3.00	14.70	290/04	29.00	6.50	6.50	16.00
	300/05	30.00	9.00	9.00	12.00	198/09	19.80	2.50	2.50	14.80	296/01	29.60	10.60	3.00	16.00
D	260/08	26.00	11.00	3.00	12.00	212/01	21.20	3.10	3.10	15.00	244/01	24.40	5.30	2.60	16.50
	211/01	21.10	6.00	2.90	12.20	216/12	21.60	3.30	3.30	15.00	249/02	24.90	5.10	3.30	16.50
	265/02	26.50	11.00	3.30	12.20	230/08	23.00	4.00	4.00	15.00	308/05	30.80	11.30	3.00	16.50
	216/15	21.60	5.80	3.30	12.50	211/09	21.10	3.30	2.80	15.00	330/03	33.00	13.00	3.50	16.50
	249/13	24.90	9.00	3.40	12.50	235/08	23.50	3.50	4.50	15.00	312/03	31.20	11.70	2.80	16.70
E	180/10	18.00	2.70	2.70	12.60	240/03	24.00	6.00	3.00	15.00	270/03	27.00	7.20	3.00	16.80
	216/18	21.60	5.70	3.30	12.60	260/03	26.00	8.00	3.00	15.00	290/10	29.00	7.20	5.00	16.80
	229/01	22.90	7.00	3.30	12.60	266/02	26.60	8.60	3.00	15.00	263/02	26.30	6.60	2.80	16.90
	177/02	17.70	2.50	2.50	12.70	270/09	27.00	6.00	6.00	15.00	249/08	24.90	5.30	2.60	17.00
	258/03	25.80	8.70	4.40	12.70	310/03	31.00	8.00	8.00	15.00	290/02	29.00	6.00	6.00	17.00
	284/01	28.40	9.00	6.60	12.80	400/05	40.00	8.00	17.00	15.00	317/01	31.70	6.50	3.20	17.00
F	216/04	21.60	5.00	2.67	12.85	283/01	28.30	10.00	3.30	15.00	408/01	40.80	11.90	11.90	17.00
	235/01	23.50	7.00	3.60	12.90	315/02	31.50	12.00	4.50	15.00	262/02	26.20	5.20	3.80	17.20
	255/01	25.50	9.00	3.60	12.90	211/06	21.10	3.10	2.80	15.20	266/01	26.60	6.00	3.40	17.20
	190/04	19.00	3.00	3.00	13.00	418/03	41.80	6.60	20.00	15.20	244/03	24.40	4.00	3.00	17.40
	220/04	22.00	6.00	3.00	13.00	378/06	37.80	19.80	2.80	15.20	274/01	27.40	6.70	3.30	17.40
	228/02	22.80	6.50	3.30	13.00	274/02	27.40	8.70	3.30	15.40	225/01	22.50	2.50	2.50	17.50
	235/07	23.50	7.50	3.00	13.00	215/01	21.50	3.00	3.00	15.50	231/01	23.10	2.80	2.80	17.50
	249/07	24.90	8.80	2.50	13.60	285/01	28.50	10.00	3.00	15.50	269/01	26.90	6.60	2.80	17.50
G	249/12	24.90	7.80	3.50	13.60	240/08	24.00	5.50	3.00	15.50	273/01	27.30	6.60	3.20	17.50
	216/02	21.60	5.30	2.50	13.80	249/01	24.90	6.10	3.30	15.50	300/01	30.00	9.50	3.00	17.50
	200/03	20.00	3.00	3.00	14.00	249/06	24.90	6.00	3.40	15.50	312/05	31.20	10.90	2.80	17.50

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UNIT mm	GENERAL TOLERANCE		DRAWN Lyndon	DATE 09.04.2008	DWG. NO. SP-S	SHEET 3/5	
	SCALE Free	X.° ±					X. ±
		.X° ±					.X ±
		.XX° ±					.XX ±
.XXX° ±		.XXX ±					
APPROVE Fagi	DATE 27.04.2019	SERIES NO. SPx-xxx-SXxxx/xx-xx	DATE 27.04.2019	REV. J19			

Pin-Code for for Pin Header
2.54mm Pitch -THT-
 Board Spacer straight
 Single, Dual & Triple Row

Pin-Code	Pin length	Dim. "A"	Dim. "B"	Dim. "C"	Pin-Code	Pin length	Dim. "A"	Dim. "B"	Dim. "C"	Pin-Code	Pin length	Dim. "A"	Dim. "B"	Dim. "C"
	mm	mm	mm	mm		mm	mm	mm	mm		mm	mm	mm	mm
363/03	36.30	11.80	7.00	17.50	263/04	26.30	2.90	2.90	20.50	315/03	31.50	5.00	2.50	24.00
365/01	36.50	12.00	7.00	17.50	297/01	29.70	6.50	2.70	20.50	323/01	32.30	5.50	2.80	24.00
216/05	21.60	1.95	1.95	17.70	288/03	28.80	5.30	2.80	20.70	328/02	32.80	6.50	2.30	24.00
260/02	26.00	5.00	3.30	17.70	302/01	30.20	6.80	2.50	20.90	336/01	33.60	6.80	2.80	24.00
267/02	26.70	5.70	3.30	17.70	270/05	27.00	3.00	3.00	21.00	340/06	34.00	7.00	3.00	24.00
262/03	26.20	5.60	2.80	17.80	290/11	29.00	5.00	3.00	21.00	450/01	45.00	18.00	3.00	24.00
313/04	31.30	10.70	2.80	17.80	314/99	31.40	7.60	2.80	21.00	312/01	31.20	3.40	3.40	24.50
230/06	23.00	2.50	2.50	18.00	316/02	31.60	7.60	3.00	21.00	328/01	32.80	5.40	2.80	24.60
249/03	24.90	3.60	3.30	18.00	290/16	29.00	5.30	2.60	21.10	313/03	31.30	3.50	2.80	25.00
263/01	26.30	5.50	2.80	18.00	276/01	27.60	3.20	3.20	21.20	235/03	23.50	5.50	3.00	25.00
280/03	28.00	7.00	3.00	18.00	318/01	31.80	7.50	3.00	21.30	338/01	33.80	5.80	3.00	25.00
290/05	29.00	8.00	3.00	18.00	300/02	30.00	5.50	3.10	21.40	390/03	39.00	7.00	7.00	25.00
378/04	37.80	16.50	3.30	18.00	308/03	30.80	6.00	3.30	21.50	352/03	35.20	7.10	3.10	25.00
249/15	24.90	4.00	2.60	18.30	352/05	35.20	5.90	7.70	21.60	347/01	34.70	7.50	2.20	25.00
261/02	26.10	5.00	2.80	18.30	308/02	30.80	5.70	3.30	21.80	360/02	36.00	8.00	3.00	25.00
240/05	24.00	2.80	2.80	18.40	342/01	34.20	6.10	6.10	22.00	410/02	41.00	8.00	8.00	25.00
312/07	31.24	9.90	2.79	18.55	342/02	34.20	3.00	9.20	22.00	430/02	43.00	9.00	9.00	25.00
250/03	25.00	3.00	3.00	19.00	342/05	34.20	9.20	3.00	22.00	408/06	40.80	9.60	5.70	25.50
287/01	28.70	6.10	3.60	19.00	352/02	35.20	10.20	3.00	22.00	340/02	34.00	5.30	3.00	25.70
290/07	29.00	6.70	3.30	19.00	357/01	35.70	3.00	10.70	22.00	340/04	34.00	5.00	3.10	25.90
290/12	29.00	7.00	3.00	19.00	357/02	35.70	3.00	10.70	22.00	380/01	38.00	9.00	3.05	25.90
340/01	34.00	9.00	6.00	19.00	360/01	36.00	3.00	11.00	22.00	312/02	31.20	2.60	2.60	26.00
245/02	24.50	3.00	2.30	19.20	362/02	36.20	3.00	11.20	22.00	258/01	25.80	4.00	2.80	19.00
255/02	25.50	3.25	3.00	19.25	337/01	33.65	9.25	2.40	22.00	358/02	35.80	5.90	3.60	26.30
279/01	27.90	5.10	3.30	19.50	408/05	40.80	16.70	2.10	22.00	342/04	34.20	5.00	2.80	26.40
260/10	26.04	4.00	2.50	19.54	287/02	28.70	3.30	3.30	22.10	464/01	46.40	10.00	10.00	26.40
308/04	30.80	8.00	3.20	19.60	290/15	29.00	3.30	3.30	22.40	330/01	33.00	3.00	3.00	27.00
270/01	27.00	3.50	3.50	20.00	293/01	29.30	3.40	3.40	22.50	370/01	37.00	3.00	7.00	27.00
270/04	27.00	4.00	3.00	20.00	300/04	30.00	3.25	3.25	22.50	340/11	34.00	3.50	3.50	27.00
342/03	34.20	4.00	10.20	20.00	314/01	31.40	6.00	2.90	22.50	358/01	35.80	5.80	3.00	27.00
290/14	29.00	6.00	3.00	20.00	353/01	35.30	3.10	9.20	23.00	365/03	36.50	6.50	3.00	27.00
290/01	29.00	6.50	2.50	20.00	315/01	31.50	5.50	3.30	23.00	378/02	37.80	7.30	3.30	27.20
316/01	31.60	9.00	2.60	20.00	340/09	34.00	5.50	5.50	23.00	408/02	40.80	9.70	3.50	27.60
332/02	33.20	6.60	6.60	20.00	320/02	32.00	6.00	3.00	23.00	453/01	45.30	8.75	8.75	27.80
408/07	40.80	6.60	14.20	20.00	340/03	34.00	8.00	3.00	23.00	363/04	36.30	7.00	1.40	27.90
340/10	34.00	9.00	5.00	20.00	352/01	35.20	3.00	9.20	23.00	338/02	33.80	3.00	2.80	28.00
340/08	34.00	10.70	3.30	20.00	352/04	35.20	9.20	3.00	23.00	340/99	34.00	3.00	3.00	28.00
362/03	36.20	13.00	3.20	20.00	329/01	32.90	6.00	3.50	23.40	363/05	36.30	5.50	2.80	28.00
400/03	40.00	17.00	3.00	20.00	378/05	37.80	11.00	3.30	23.50	378/03	37.80	6.50	3.30	28.00
265/04	26.50	3.10	3.10	20.30	340/07	34.70	7.00	3.30	23.70	390/04	39.00	7.00	4.00	28.00

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UNIT	mm	GENERAL TOLERANCE	
	SCALE	X.° ±	X. ±
Free	Free	.X° ±	.X ±
		.XX° ±	.XX ±
Free	Free	.XXX° ±	.XXX ±

DRAWN	Lyndon	DATE	09.04.2008
CHECK	Ronny	DATE	27.04.2019
APPROVE	Fagi	DATE	27.04.2019

DWG. NO.	SP-S	SHEET 4/5
SERIES NO.	SPx-xxx-SXxxx/xx-xx	REV. J19

Pin-Code for for Pin Header
2.54mm Pitch -THT-
 Board Spacer straight
 Single, Dual & Triple Row

Pin-Code	Pin length	Dim."A"	Dim."B"	Dim."C"	Pin-Code	Pin length	Dim."A"	Dim."B"	Dim."C"	Pin-Code	Pin length	Dim."A"	Dim."B"	Dim."C"
	mm	mm	mm	mm		mm	mm	mm	mm		mm	mm	mm	mm
390/02	39.00	8.00	3.00	28.00	516/01	51.60	6.80	3.30	41.50					
408/08	40.80	9.80	3.00	28.00	518/01	51.80	7.00	3.30	41.50					
400/01	40.00	8.00	3.30	28.70	548/02	54.80	9.00	2.80	43.00					
400/02	40.00	7.50	3.70	28.80	558/01	55.80	10.00	2.80	43.00					
356/01	35.60	3.50	3.10	29.00	516/02	51.60	3.30	3.30	45.00					
400/04	40.00	4.00	7.00	29.00	548/01	54.80	6.00	2.80	46.00					
365/02	36.50	5.00	2.50	29.00	585/01	58.50	6.00	6.00	46.50					
390/01	39.00	6.50	3.10	29.40	480/01	48.00	5.70	5.70	36.60					
362/04	36.20	3.50	2.70	30.00	616/01	61.60	9.80	3.30	48.50					
363/02	36.30	4.30	2.00	30.00	566/01	56.60	3.30	3.30	50.00					
378/01	37.80	5.30	2.50	30.00	600/01	60.00	6.70	3.30	50.00					
389/01	38.90	5.30	3.60	30.00	606/01	60.60	6.00	3.10	51.50					
415/01	41.50	7.00	4.50	30.00	615/01	61.50	6.00	3.30	52.20					
418/02	41.80	8.00	3.80	30.00	678/01	67.80	9.20	5.80	52.80					
414/01	41.40	8.40	3.00	30.00										
363/01	36.30	3.00	2.80	30.50										
395/01	39.50	6.00	3.00	30.50										
391/01	39.10	5.00	3.00	31.10										
394/01	39.40	3.00	5.00	31.40										
408/03	40.80	6.00	3.30	31.50										
418/01	41.80	7.00	2.80	32.00										
425/02	43.00	7.00	3.50	32.00										
408/04	40.80	5.80	2.50	32.50										
500/01	50.00	11.00	6.00	33.00										
423/01	42.30	4.80	2.50	34.00										
438/01	43.80	6.70	3.10	34.00										
425/01	42.50	4.00	4.00	34.50										
546/01	54.60	10.00	10.00	34.60										
475/01	47.50	9.00	3.30	35.20										
500/02	50.00	11.00	3.50	35.50										
453/02	45.30	6.00	3.30	36.00										
453/04	45.30	4.65	4.65	36.00										
443/01	44.30	4.00	4.00	36.30										
430/01	43.00	3.00	3.00	37.00										
453/03	45.30	4.00	3.30	38.00										
470/01	47.00	6.00	3.00	38.00										
516/03	51.60	9.30	3.30	39.00										
455/01	45.50	3.00	3.00	39.50										
462/01	46.20	3.20	3.20	39.80										
530/01	53.00	6.00	6.00	41.00										

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UNIT	mm	GENERAL TOLERANCE	
		X.° ±	X. ±
SCALE	Free	.X° ±	.X ±
		.XX° ±	.XX ±
		.XXX° ±	.XXX ±

DRAWN	Lyndon	DATE	09.04.2008
CHECK	Ronny	DATE	27.04.2019
APPROVE	Fagi	DATE	27.04.2019

DWG. NO.	SP-S	SHEET 5/5
SERIES NO.	SPx-xxx-SXxxx/xx-xx	REV. J19

Pin-Code for for Pin Header
2.54mm Pitch -THT-
 Board Spacer straight
 Single, Dual & Triple Row