

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0876313003](#)
Status: **Active**
Overview: [extreme_powerplus_ssi](#)
Description: 6.35mm (.250") Pitch Power, 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ P-S-P Header, Through Hole, Right Angle, Short Contacts, 30 Circuits, Power Alpha 3, Signal 24, Power Beta 3, No Recessed Signal Pin, Lead-free

Documents:

3D Model	Product Specification PS-87631-006 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
TUV	R50078473

General

Product Family	PCB Headers
Series	87631
Application	Board-to-Board
Comments	Short Contacts Recessed Signal Pin: Nil
Overview	extreme_powerplus_ssi
Product Name	EXTreme PowerPlus™

Physical

Breakaway	No
Circuits (Loaded)	30
Circuits Detail	Power Alpha 3, Signal 24, Power Beta 3
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	4
Orientation	Right Angle
PC Tail Length (in)	0.135 In
PC Tail Length (mm)	3.43 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In, 0.250 In
Pitch - Mating Interface (mm)	2.54 mm, 6.35 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.54
Polarized to Mating Part	Yes
Polarized to PCB	Yes

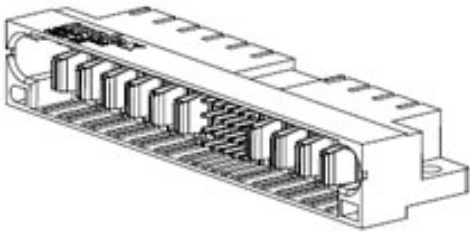


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**Halogen-Free
Status**

Not Reviewed

**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any
non-product compliance questions.

China RoHS



Search Parts in this Series

[87631Series](#)

Mates With

[87633](#) Vertical Press-Fit Receptacle. [87622](#)
Vertical Through Hole Receptacle. [87632](#)
Right Angle Through Hole Receptacle

Shrouded	Fully
Stackable	No
Temperature Range - Operating	-20°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	2.5A, 30A
Voltage - Maximum	250V DC

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

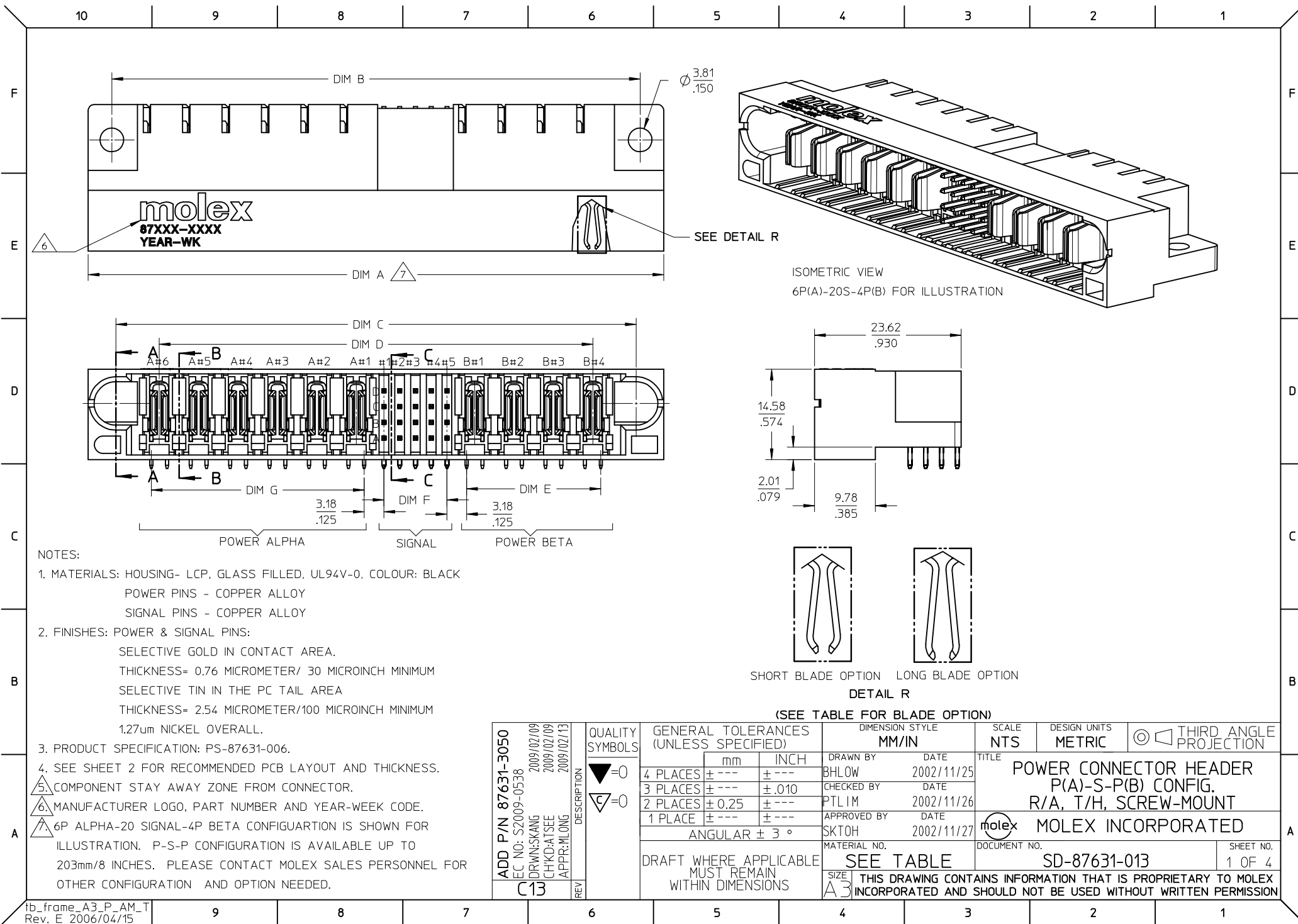
Material Info

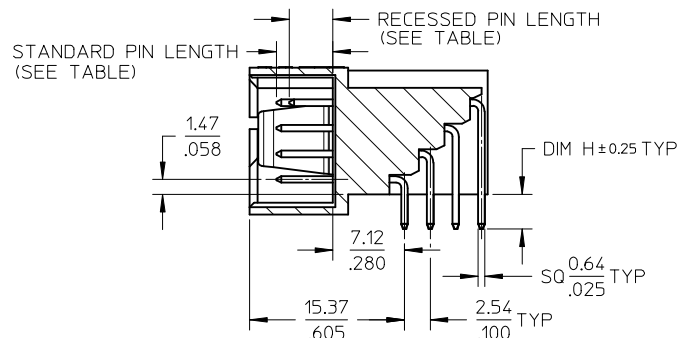
Reference - Drawing Numbers

Application Specification	AS-87631-018
Product Specification	PS-87631-006
Sales Drawing	SD-87631-013

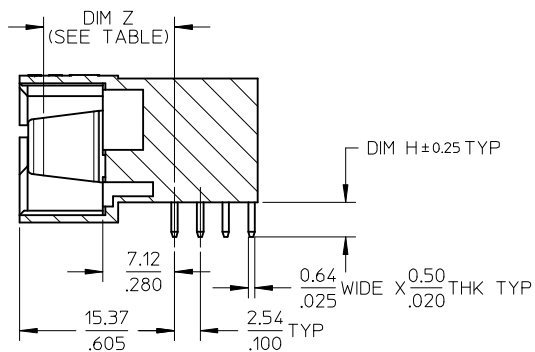
This document was generated on 05/25/2010

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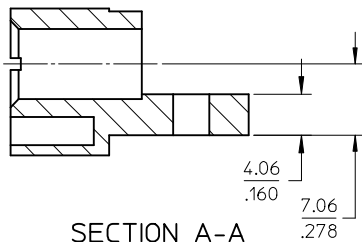




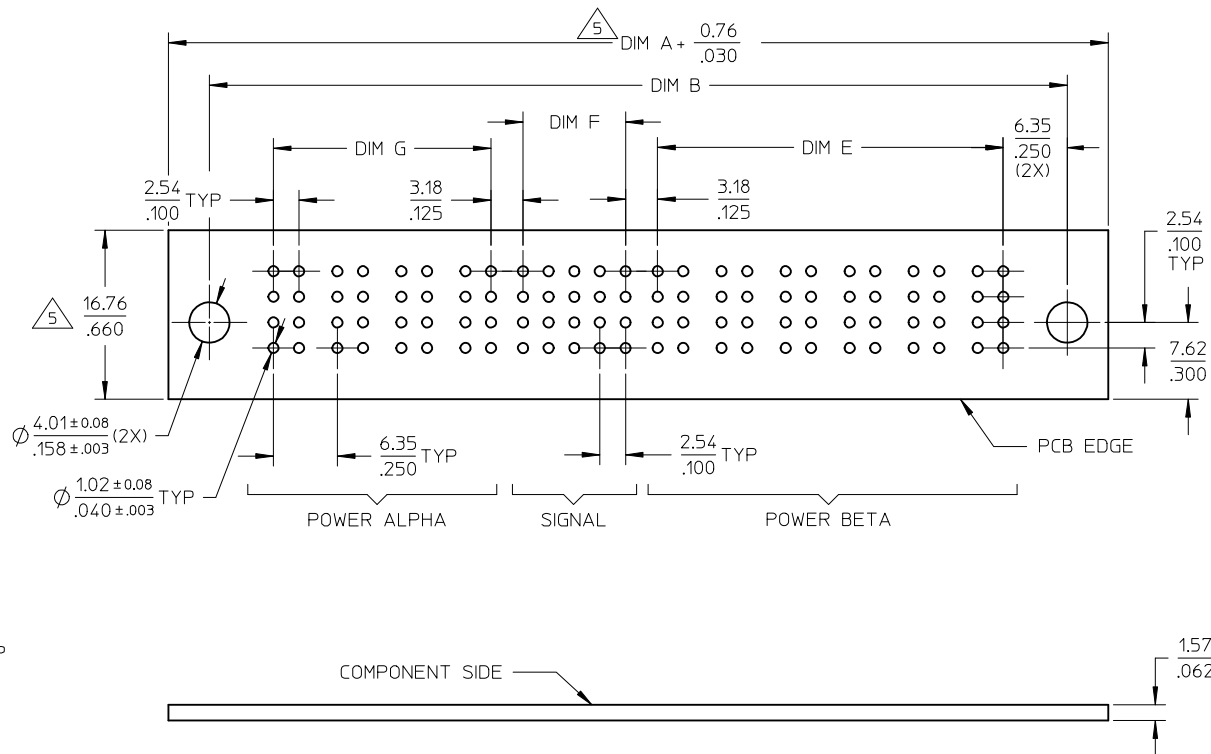
SECTION C-C



SECTION B-B



SECTION A-A



RECOMMENDED PCB LAYOUT

ADD P/N 87631-3050 EC NO: S2009-0538 DRWN:SKANG CHKD:ATSEE APPR:MLONG 2009/02/09 2009/02/09 2009/02/13	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
			4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm	INCH	DRAWN BY BHLW	DATE 2002/11/25	TITLE POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, SCREW-MOUNT				
				± ---	± ---	CHECKED BY	DATE					
				± ---	± .010	PTLIM	2002/11/26					
				± 0.25	± ---	APPROVED BY	DATE	MOLEX INCORPORATED				
± ---	± ---	SKTOH	2002/11/27	DOCUMENT NO.								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO. SEE TABLE		SHEET NO. 2 OF 4						
C13	REV				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

	10			9			8			7			6			5			4			3			2			1			
	PART NUMBER	P-S-P CONFIGURATION			DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	DIM H	POWER BLADE OPTIONS			STANDARD SIGNAL	RECESSED SIGNAL PIN		VOID SIGNAL LOCATION	PACKAGING											
		POWER ALPHA	SIGNAL	POWER BETA									TYPE	DIM Z ±0.13/.005	PIN LENGTH	LENGTH	LOCATION														
F	87631-3000	3	24	5	82.54 3.250	74.93 2.950	73.65 2.900	59.69 2.350	27.94 1.100	12.70 .500	15.24 .600	3.43 .135	SHORT CONTACT	13.32 / .524	5.59 / .220	4.32/.170	NIL	NIL	TRAY												
	87631-3001	6	20	4	92.71 3.650	85.10 3.350	83.82 3.300	69.86 2.750	21.59 .850	10.16 .400	34.29 1.350					C2	TRAY														
	87631-3002	4	24	4	82.54 3.250	74.93 2.950	73.65 2.900	59.69 2.350	21.59 .850	12.70 .500	21.59 .850					A1	TRAY														
	87631-3003	3	24	3	69.84 2.750	62.23 2.450	60.95 2.400	46.99 1.850	15.24 .600	12.70 .500	15.24 .600					NIL	TRAY														
E	87631-3004	2	24	2	57.15 2.250	49.53 1.950	48.26 1.900	34.29 1.350	8.89 .350	12.70 .500	8.89 .350						NIL	TRAY													
	87631-3006	2	32	2	62.23 2.450	54.61 2.150	53.34 2.100	39.37 1.550	8.89 .350	17.78 .700	8.89 .350						NIL	TRAY													
	87631-3008	2	24	2	57.15 2.250	49.53 1.950	48.26 1.900	34.29 1.350	8.89 .350	12.70 .500	8.89 .350					B4	TRAY														
	87631-3009	2	24	4	69.84 2.750	62.23 2.450	60.95 2.400	46.99 1.850	21.59 .850	12.70 .500	8.89 .350					B4	TRAY														
D	87631-3010	4	24	6	95.24 3.750	87.63 3.450	86.35 3.400	72.39 2.850	34.29 1.350	12.70 .500	21.59 .850						B4	TRAY													
	87631-3011	6	24	5	101.59 4.000	93.98 3.700	92.70 3.650	78.74 3.100	27.94 1.100	12.70 .500	34.29 1.350					A3, B6, C3, D5	TRAY														
	87631-3013	4	24	2	69.84 2.750	62.23 2.450	60.95 2.400	46.99 1.850	8.89 .350	12.70 .500	21.59 .850		↓	↓	↓	↓	C1	TRAY													
	87631-3020	1	16	1	39.37 1.550	31.75 1.250	30.48 1.200	16.51 .650	2.54 .100	7.62 .300	2.54 .100		LONG CONTACT	14.12 / .556	6.86 / .270	5.59/.220	B1	TRAY													
C	87631-3015	4	20	4	80.00 3.150	72.39 2.850	71.11 2.800	57.15 2.250	21.59 .850	10.16 .400	21.59 .850						B3	TRAY													
	87631-3021	6	24	5	101.59 4.000	93.98 3.700	92.70 3.650	78.74 3.100	27.94 1.100	12.70 .500	34.29 1.350					A3, B6, C3, D5	TRAY														
	87631-3022	2	12	2	49.53 1.950	41.91 1.650	40.64 1.600	26.67 1.050	8.89 .350	5.08 .200	8.89 .350					B2 C3	TRAY														
	87631-3023	2	12	2	49.53 1.950	41.91 1.650	40.64 1.600	26.67 1.050	8.89 .350	5.08 .200	8.89 .350	2.34 .092					B1 C3	TRAY													
B	87631-3024	1	12	1	36.83 1.450	29.21 1.150	27.94 1.100	13.97 5.50	2.54 .100	5.08 .200	2.54 .100	3.43 .135					NIL	TRAY													
	87631-3028	2	24	2	57.15 2.250	49.53 1.950	48.26 1.900	34.29 1.350	8.89 .350	12.70 .500	8.89 .350	3.43 .135					C6	TRAY													
	87631-3031	4	24	2	69.84 2.750	62.23 2.450	60.95 2.400	46.99 1.850	8.89 .350	12.70 .500	21.59 .850	3.43 .135					C1	TRAY													
A	87631-3037	3	24	3	69.84 2.750	62.23 2.450	60.95 2.400	46.99 1.850	15.24 .600	12.70 .500	15.24 .600	3.43 .135					ALL EXCEPT A6,B1,C1	TRAY													
	87631-3038	4	16	2	64.77 2.550	57.16 2.250	55.88 2.200	41.92 1.650	8.89 .350	7.62 .300	21.59 .850	3.43 .135					A1,A2,A4,B1,B3 C2,C4,D1,D2,D3,D4	TRAY													
	87631-3041	2	24	2	57.15 2.250	49.53 1.950	48.26 1.900	34.29 1.350	8.89 .350	12.70 .500	8.89 .350	3.43 .135		↓	↓	↓	↓	C3	TRAY												

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							MM/IN		NTS	METRIC				
							DRAWN BY	DATE	DRAWN BY					DATE
							CHECKED BY	DATE	CHECKED BY					DATE
							APPROVED BY	DATE	APPROVED BY					DATE
					ANGULAR ± 3 °		SKTOH		2002/11/27					
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.					
							SIZE A3		SEE TABLE		SD-87631-013			
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tb_frame_A3_P_AM_T
Rev. E 2006/04/15