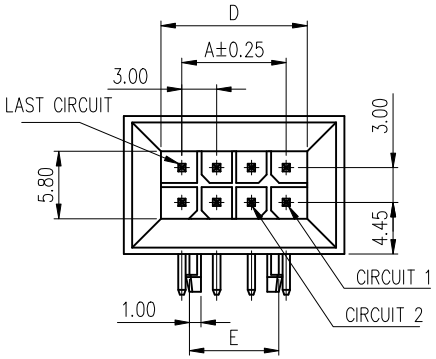

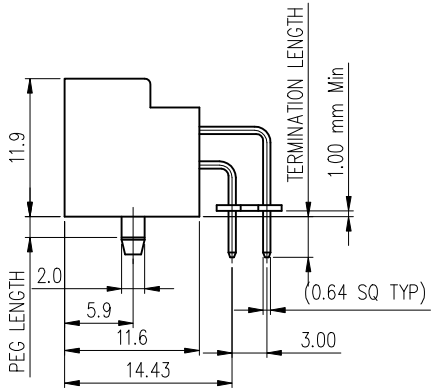

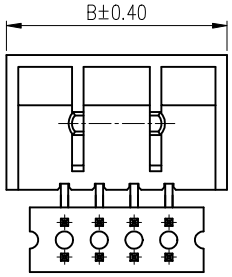

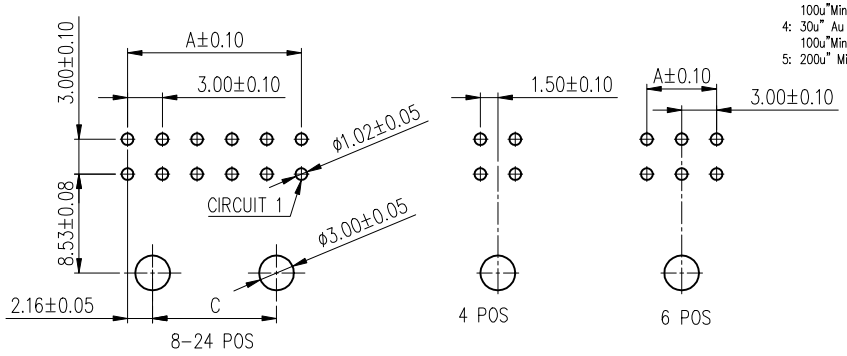

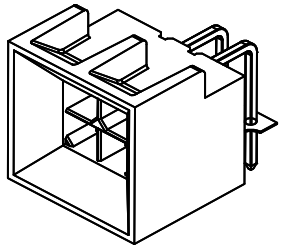

RECOMMENDED PCB LAYOUT
GENERAL TOLERANCE: ±0.05
PCB THICKNESS=1.60~3.20MM

NOTE:
1. MATERIAL:
   HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
   CONTACT: COPPER ALLOY.
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
   OPTIONAL PLATING ON CONTACT AREA,TIN ON SOLDER TAIL.
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR .
4. PRODUCT SPECIFICATION: GS-12-1177.
5. PACKAGE SPECIFICATION: GS-14-2359 (TRAY) / GS-14-2666 (FOR TAPE & REEL)
6. APPLICATION SPECIFICATION: GS-20-0399
7. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
8. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER
9. TO MINIMIZE INSERTION FORCE OF MOUNTING PEG DURING PICK & PLACEMENT,THE PEG HOLE DIAMETER SHOULD BE 3.5 +0.05/-0, THEN EVALUATED PER PLACEMENT EQUIPMENT
10. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
11. S2 NOT TOOLED UP
12. PART NUMBER SCHEME:

10144754- XX X X X X X LF

- POS. CODE: 04: 4 POS; 06: 6 POS; ⋮; 24: 24 POS; S1: See sheet-3; S2: See sheet-3
- TERMINATION & PEG LENGTH: BLANK: 3.50MM TERMINAL & 1.8MM PEG LENGTH; 1: 2.10MM TERMINAL & 1.8MM PEG LENGTH; 2: 4.90MM TERMINAL & 3.4MM PEG LENGTH
- PLATING CODE: 1: 80u" Min. MATTE TIN OVERALL; 3: 15u"Min Au ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL; 4: 30u" Au ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL; 5: 200u" Min. MATTE TIN OVERALL
- GLOW WIRE COMPATIBLE: 1: COMPATIBLE
- PEG OPTION: BLANK: WITH PEG; B: WITHOUT PEG
- OPTIONAL PACKAEGS: BLANK: TRAY WITH STANDARD ALIGNER (WHITE COLOR); K: TAPE/REEL PACKAGE WITH HIGH TEMP. KAPTON TAPE(ONLY FOR 4,8&12POS) AND ALIGNER (BROWN COLOR -ONLY FOR 4,8&12POS); T: TAPE/REEL PACKAGE WITH HIGH TEMP. ALIGNER (BROWN COLOR) (ONLY FOR 12POS)
- LEAD FREE

P/N AND DIMENSIONS:

PART NUMBER	POS	A	B	C	D	E
10144754-04XXXXLF	4	3.00	13.00	NA	6.60	3.00
10144754-06XXXXLF	6	6.00	16.00	NA	9.60	3.00
10144754-08XXXXLF	8	9.00	19.00	4.68	12.60	7.70
10144754-10XXXXLF	10	12.00	22.00	7.68	15.60	10.70
10144754-12XXXXLF	12	15.00	25.00	10.68	18.60	13.70
10144754-14XXXXLF	14	18.00	28.00	13.68	21.60	16.70
10144754-16XXXXLF	16	21.00	31.00	16.68	24.60	19.70
10144754-18XXXXLF	18	24.00	34.00	19.68	27.60	22.70
10144754-20XXXXLF	20	27.00	37.00	22.68	30.60	25.70
10144754-22XXXXLF	22	30.00	40.00	25.68	33.60	28.70
10144754-24XXXXLF	24	33.00	43.00	28.68	36.60	31.70

ltr	ecn no	dr	date
A	-	TONY	2018-09-19
B	ELX-I-43451	ASLAM	2021-12-29
C	ELX-I-43460	AKHIL	2022-01-21
D	ELX-I-50470	MSHNU	2024-01-23

sheet index	revision	D	D
	sheet	1	2
		3	

mat'l. code

surface ISO 1302 ✓ tolerance ISO 406 ISO 1101

tolerances unless otherwise specified

angles 0°±2° linear .0±.30 .00±.20 .000±.10

projection

mm

scaleN.T.S

dr	TONY LENG	2018-09-19
engr	VISHNU	2024-01-23
chr	SAJAY	2024-01-23
appd	MITHUN PAUL	2024-01-23

product family: MINITEK PWR3.0

title: BMI RIGHT ANGLE HEADER DUAL ROW,MTK3.0 STD

dwg no 10144754 | sheet 1 of 3 | size A3

type Product Customer Drawing

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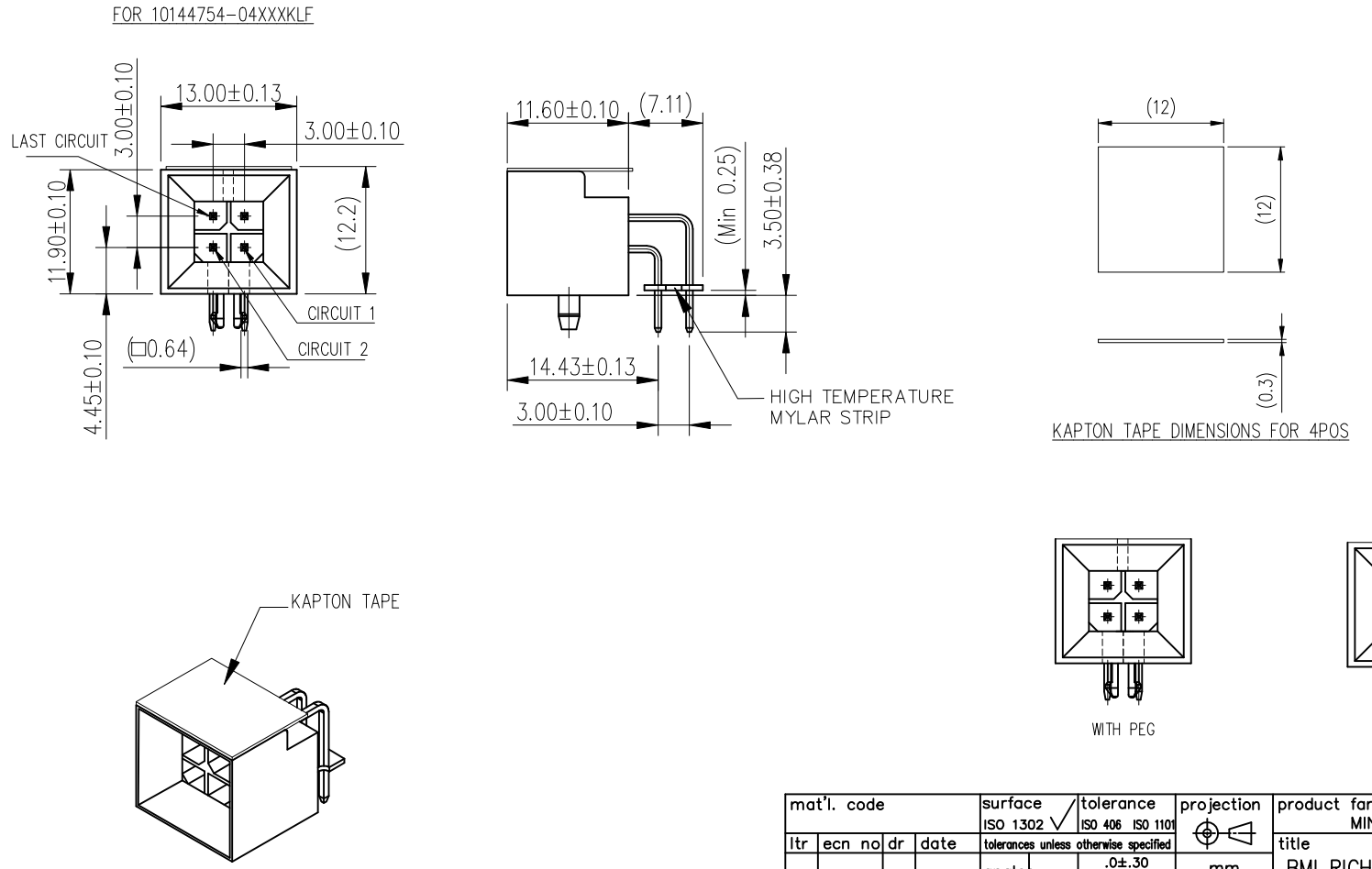
form: A3-2016-02-24

PDS: Rev :D STATUS:Released Printed: Ap



mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family MINITEK PWR3.0	
ltr	ecn no	dr	date	tolerances unless otherwise specified			title	
				angles	linear .0±.30	mm	BMI RIGHT ANGLE HEADER DUAL ROW,MTK3.0 STD	
					.00±.20			
				0°±2°	.000±.10	scaleN.T.S		
				dr	TONY LENG	2018-09-19	dwg no	sheet2 of 3 size
				engr	VISHNU	2024-01-23	10144754	A3
				chr	SAJAY	2024-01-23		
				appd	MITHUN PAUL	2024-01-23	type	Product Customer Drawing
sheet index	revision	D	D	D				
	sheet	1	2	3				

Amphenol FCi

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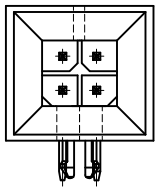
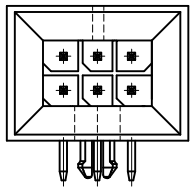
form: A3-2016-02-24

PDS: Rev :D STATUS:Released Printed: Ap



4 POS



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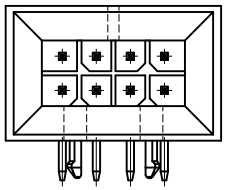

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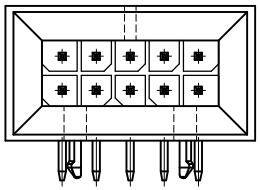

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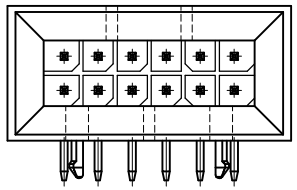
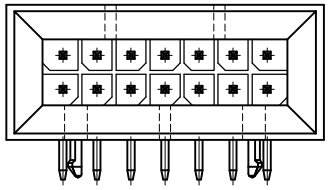
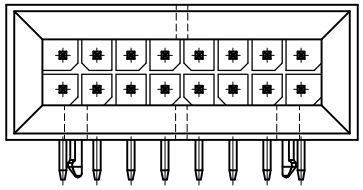


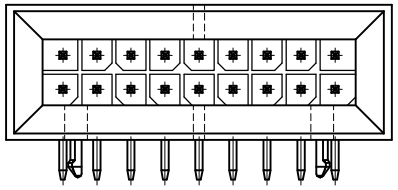
12 POS



14 POS



16 POS



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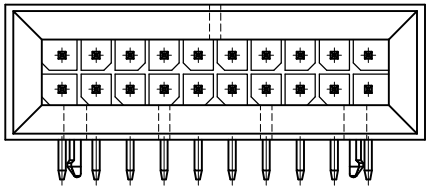

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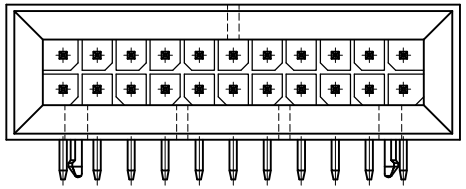

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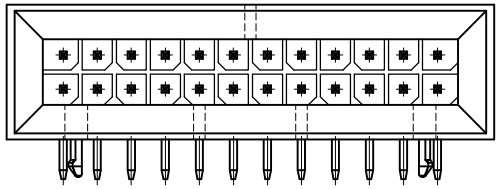
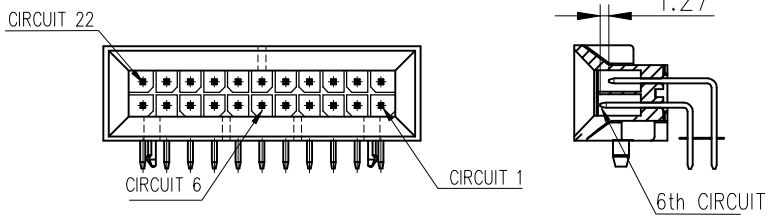


24 POS

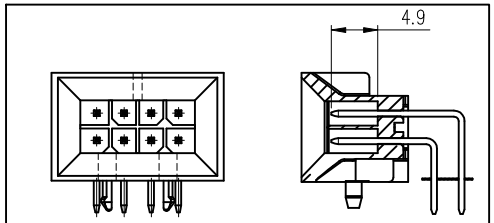
ONLY AVAILABLE IN 3.5MM TAIL LENGTH



10144754-S2XXXLF:

S2: CIRCUIT 22

FMLB FEATURE ON 6th CIRCUIT



10144754-S1XXXXLF:

S1: CIRCUIT 08

mat'l. code				surface	tolerance	projection	product family
				ISO 1302	ISO 406 ISO 1101		MINITEK PWR3.0
ltr	ecn no	dr	date	tolerances unless otherwise specified			title
				angles	linear .0±.30	mm	BMI RIGHT ANGLE HEADER
					.00±.20		DUAL ROW,MTK3.0 STD
				0°±2°	.000±.10	scaleN.T.S	
				dr	TONY LENG	2018-09-19	dwg no 10144754 sheet3 of 3 size A3
				engr	VISHNU	2024-01-23	
				chr	SAJAY	2024-01-23	
				appd	MITHUN PAUL	2024-01-23	type Product Customer Drawing

sheet index	revision sheet	D 1	D 2	D 3

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