

spec ref	-	dr	Feng Zheng	2017/02/09	projection	mm	size	A2	scale	1:1
tolerance std	ISO 406 ISO 1101	eng	Feng Zheng	2017/03/03			ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2017/03/03						
surface	ISO 1302	appr	Pai-Ming Zheng	2017/03/03	product family		cat. no.	HPCE VERT RECEPT 12HP20S	dwg no	10142587
	linear	0.X	±0.5						rev	A
		0.XX	±0.25							
		0.XXX	±0.10							
	angular	0°	±2°							

PDS: Rev :A

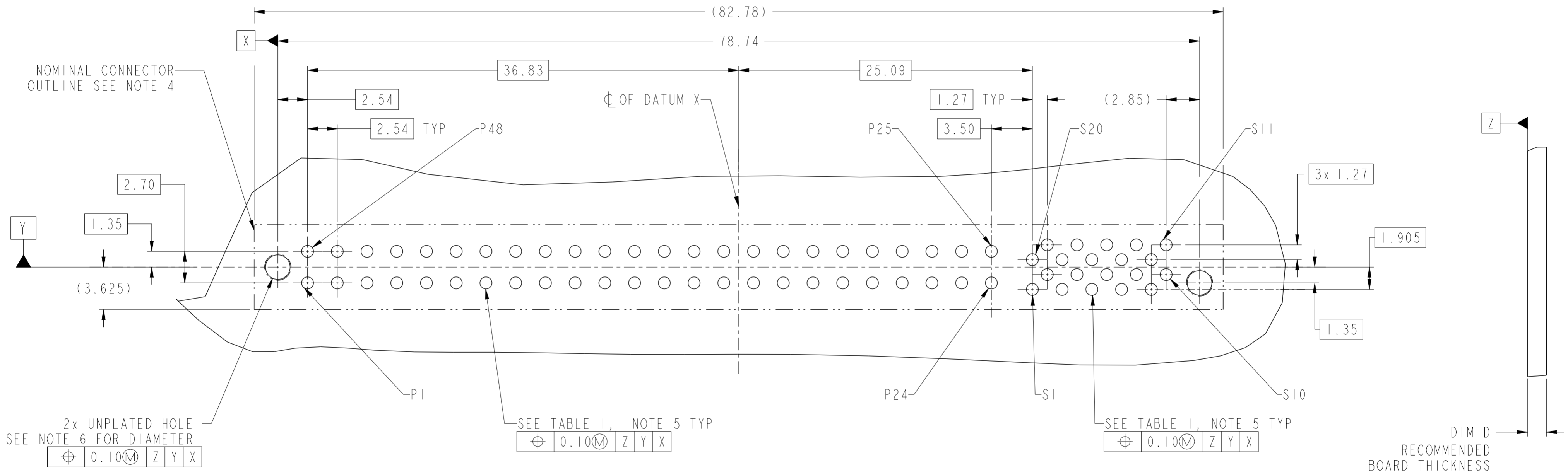
STATUS:Released

Printed: Mar 03, 2017

Amphenol
FCi

© 2016 AFci

CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 1 (HPCE / SOLDER TAILS) PLATED THROUGH-HOLE REQUIREMENTS				
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER
POWER & SIGNAL	TIN-LEAD	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	0.005 - 0.015	--	0.94 - 1.10
	IMMERSION TIN	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	--	0.9 - 1.5um	0.94 - 1.10
	COPPER	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	--	--	0.94 - 1.10

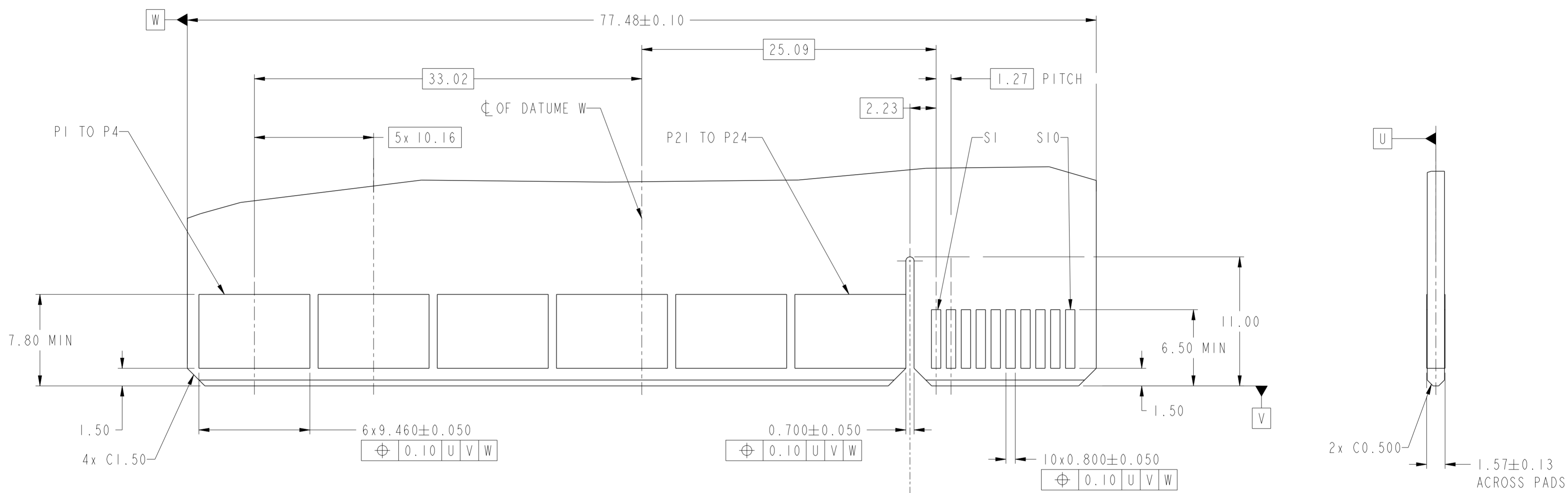


**RECOMMENDED HOST BOARD LAYOUT
DIMENSION TOERANCE IS ±0.05MM**

spec ref	-	dr	Feng Zheng	2017/02/09	projection	mm	size	A2	scale	1:1
tolerance std	ISO 406 ISO 1101	eng	Feng Zheng	2017/03/03			ecn no	-	rel level	Released
surface	linear	chr	Terris Liu	2017/03/03						
		appr	Pei-Ming Zheng	2017/03/03						
ISO 1302	angular	0°	±2°	product family	HPCE VERT RECEPT	12HP20S	cat. no.	Product - Customer Drw	sheet 2 of 4	

Amphenol FCI

© 2016 APCI



RECOMMENDED MATING BOARD
DIMENSION TOERANCE IS $\pm 0.05\text{MM}$

Amphenol
FCi

© 2016 AFci

spec ref	-	dr	Feng Zheng	2017/02/09	projection	mm	size	A2	scale	1:1	
tolerance std	ISO 406 ISO 1101	eng	Feng Zheng	2017/03/03			ecn no	-	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2017/03/03							
surface	ISO 1302	appr	Pai-Ming Zheng	2017/03/03	product family		cat. no.	Product - Customer Drw	sheet 3 of 4	rev	A
	linear	0.X	± 0.5								
		0.XX	± 0.25								
		0.XXX	± 0.10								
	angular	0°	$\pm 2^\circ$								

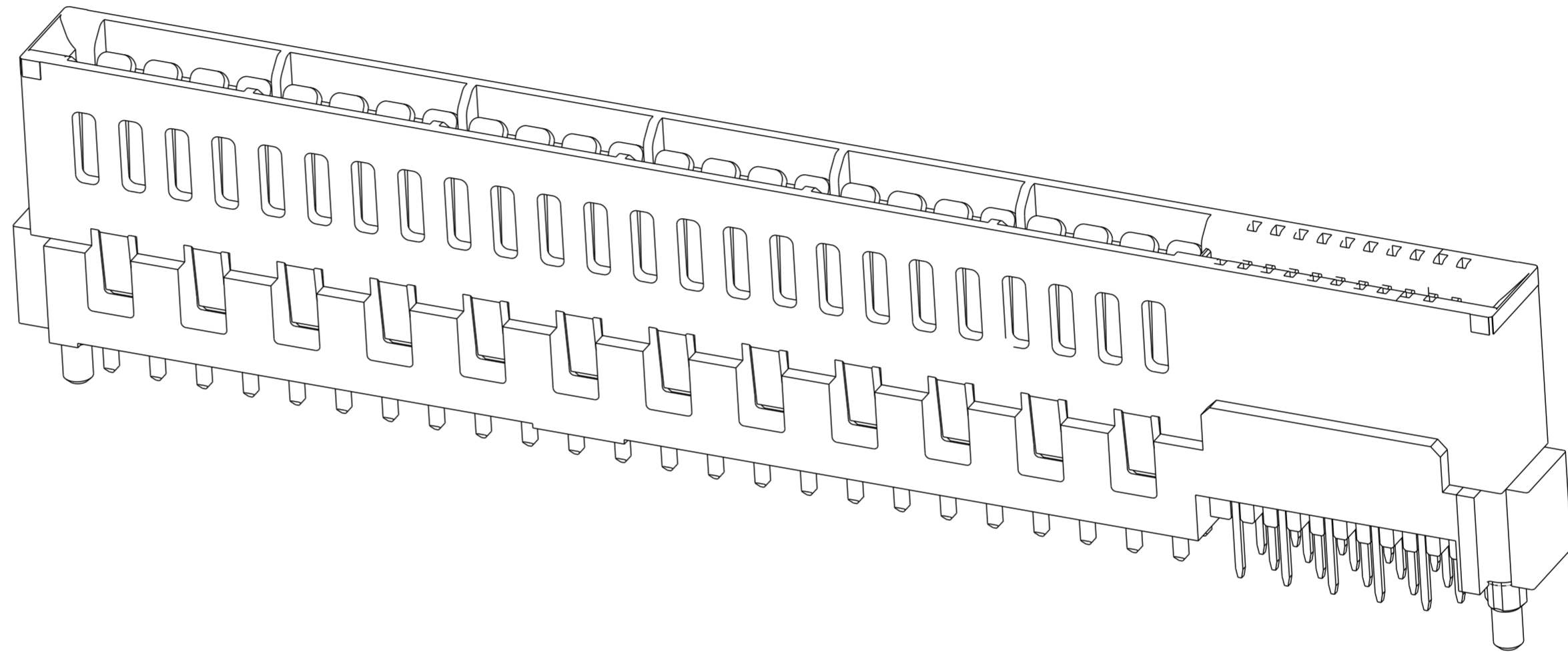
PDS: Rev :A

STATUS:Released

Printed: Mar 03, 2017

TABLE 2 HPCE PART NUMBER

PART NUMBER	TAIL TYPE	POLARIZATION KEY	TAIL LENGTH	DIM D RECOMMENDED BOARD THICKNESS
10142587-001LF	SOLDER	YES	2.40±0.25	1.57±0.13



NOTES:

1. PRODUCT MARK:
PART NUMBER AND DATE CODE TO BE MARKED ON THIS SURFACE .
THE MARK CAN BE OMITTED IF THERE IS NOT ENOUGH SPACE ON THIS SURFACE.
2. MATERIALS:
HOUSING : HIGH TEMPERATURE THERMOPLASTIC WITH GLASS FIBER, UL94V-0, BLACK.
CONTACT : HIGH CONDUCTIVITY COPPER ALLOY.
3. CONTACT FINISH REF: GS-12-604 SECTION 5.2.
4. DENOTES CONNECTOR KEEP OUT ZONE.
5. ALL HOLE DIAMETERS ARE FINISHED HOLE SIZES.
6. MOUNTING HOLES ARE UNPLATED
Ø 2.18 +/- 0.03 FOR WAVE SOLDER PROCESS
7. THE HOUSING WILL WITHSTAND EXPOSURE TO 245°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION.
8. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
9. PRODUCT SPECIFICATION : GS-12-604.
APPLICATION SPECIFICATION : GS-20-128.
PACKAGING SPECIFICATION: GS-14-937.

spec ref	-	dr	Feng Zheng	2017/02/09	projection	mm	size	A2	scale	1:1
tolerance std	ISO 406 ISO 1101	eng	Feng Zheng	2017/03/03			ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2017/03/03						
surface	linear	0.X	±0.5		product family					
		0.XX	±0.25							
		0.XXX	±0.10							
ISO 1302	angular	0°	±2°							
				cat. no.	Product - Customer Drw		sheet 4 of 4			