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Part Number: [0447640803](#)
Status: **Active**
Overview: [microfit_30](#)
Description: 3.00mm (.118") Pitch Micro-Fit 3.0, BMI™ Receptacle Header, Dual Row, Right Angle, with Press-fit Plastic Pegs, 0.8µm (30µ") Gold (Au) Selective, 8 Circuits

Documents:

3D Model	Product Specification PS-44300-001 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
TUV	R72081037
UL	E29179

General

Product Family	PCB Receptacles
Series	44764
Application	Board-to-Board, Wire-to-Board
Overview	microfit_30
Product Literature Order No	USA-106
Product Name	Micro-Fit 3.0 BMI™

Physical

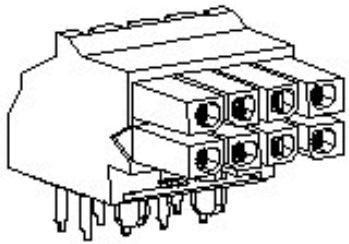
Circuits (Loaded)	8
Durability (mating cycles max)	30
Flammability	94V-0
Glow-Wire Compliant	No
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	2
Orientation	Right Angle
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.118 In
Pitch - Mating Interface (mm)	3.00 mm
Plating min: Mating (µin)	30.4
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	101.6
Plating min: Termination (µm)	2.54
Polarized to PCB	Yes
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	5A
Voltage - Maximum	250V

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1



Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
Halogen-Free
Status

China RoHS



**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.

Search Parts in this Series

[44764Series](#)

Mates With

[44428](#) , [44300](#) , [44432](#)

Process Temperature max. C260

Material Info

Reference - Drawing Numbers

Packaging SpecificationPK-44764-001

Product SpecificationPS-44300-001, RPS-44300-001

Sales DrawingSD-44764-001, SD-44764-003

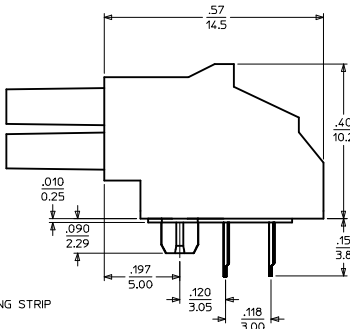
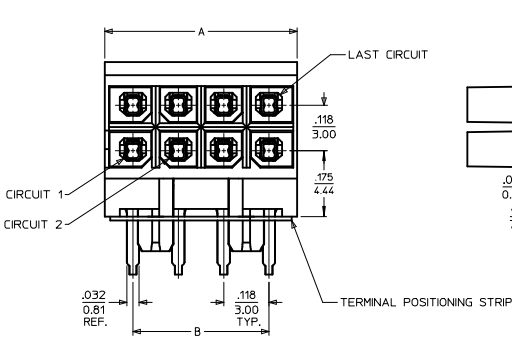
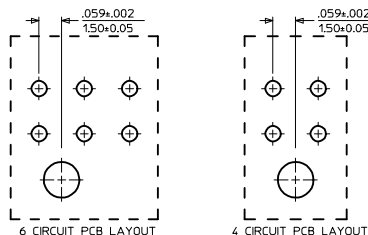
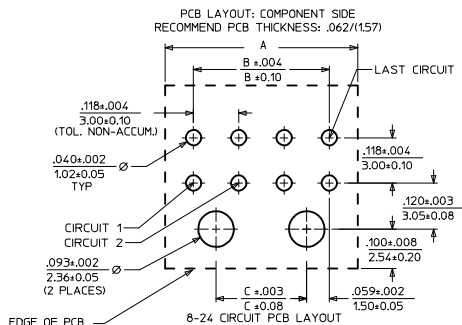
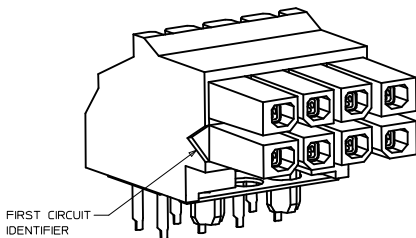
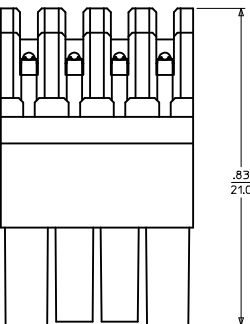
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MATERIAL NUMBER	NUMBER OF POSITIONS	PLATING OPTION
	04	A
	04	B
	04	C
	06	A
	06	B
	06	C
	08	A
	08	B
	08	C
	10	A
44764-1022	10	B
	10	C
	12	A
	12	B
	12	C
	14	A
	14	B
	14	C
	16	A
	16	B
	16	C
	18	A
	18	B
	18	C
	20	A
	20	B
	20	C
	22	A
	22	B
	22	C
	24	A
	24	B
	24	C

NUMBER OF POSITIONS	DIM. "A"	DIM. "B"	DIM. "C"
24	1.445/(36.70)	1.299/(33.00)	1.181/(30.00)
22	1.327/(33.70)	1.181/(30.00)	1.063/(27.00)
20	1.209/(30.70)	1.063/(27.00)	.945/(24.00)
18	1.091/(27.70)	.945/(24.00)	.827/(21.00)
16	.972/(24.70)	.827/(21.00)	.709/(18.00)
14	.854/(21.70)	.709/(18.00)	.591/(15.00)
12	.736/(18.70)	.591/(15.00)	.472/(12.00)
10	.618/(15.70)	.472/(12.00)	.354/(9.00)
8	.500/(12.70)	.354/(9.00)	.236/(6.00)
6	.382/(9.70)	.236/(6.00)	
4	.264/(6.70)	.118/(3.00)	



- NOTES:
- MATERIAL:
HOUSING: HIGH TEMP NYLON, GLASS FILLED, UL, 94V-0, COLOR BLACK
TERMINAL: PHOSPHOR BRONZE ALLOY
POSITIONING STRIP: MYLAR, COLOR NATURAL
 - FINISH:
(A) = HOT TIN DIP: .000040/0.00102 MIN.
(B) = SELECTIVE GOLD IN THE CONTACT AREA: .000015/0.00039 MIN., SELECTIVE TIN IN THE PC TAIL AREA: .000100/0.00254 MIN., BOTH OVER .000050/0.00127 MIN. NICKEL.
(C) = SELECTIVE GOLD IN THE CONTACT AREA: .000030/0.00076 MIN., SELECTIVE TIN IN THE PC TAIL AREA: .000100/0.00254 MIN., BOTH OVER .000050/0.00127 MIN. NICKEL.
 - PRODUCT SPECIFICATIONS: PS-44300-001
 - PACKAGING SPECIFICATION: TUBE PACKED PER PK-44764-002
 - MATES WITH HEADER ASSEMBLY 44428, 44432, AND 44300
 - MOLEX RECOMMENDS THE USE OF MICRO-FIT TEST PLUG (SERIES 44242) WHENEVER CONTINUITY TESTING IS PERFORMED. TEST PLUGS MUST NOT BE USED TO MAKE OR BREAK UNDER LOAD. MOLEX DOES NOT RECOMMEND USING STANDARD MATING COMPONENTS (SERIES 44428, 44432, OR 44300) FOR TESTING PURPOSES.

INITIAL RELEASE EC NO: UCP2009-0615 DRWN:GAVERILL 2008/09/15 CHKD:SSOUSEK 2008/09/16 APPR:FSMITH 2008/09/16 A	DESCRIPTION	QUALITY SYMBOLS ▽ = 0 ▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE ---	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	REVISE ON CAD ONLY						
				mm	INCH	DIMENSION STYLE IN/MM				TITLE MICRO-FIT (3.0) BMI R/A RECEPTACLE ASS'Y 4 - 24 CKT, TUBE PACKED				
			4 PLACES	± ---	± ---	DRAWN BY GAVERILL					DATE 2008/09/11			
			3 PLACES	± ---	± .010									
			2 PLACES	± 0.25	± .014	CHECKED BY SSOUSEK					DATE 2008/09/11	 MOLEX INCORPORATED		
			1 PLACE	± 0.35	± ---									
			ANGULAR ±1/2°			APPROVED BY FSMITH				DATE 2008/09/15	MATERIAL NO. SEE CHART		DOCUMENT NO. SD-44764-003	SHEET NO. 1 OF 1
			DRAFT WHERE APPLICABLE											
			MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								