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Part Number: 0877861011
Status: Active
Overview:
Description: 1.00mm (.039") Pitch iCool™ Low Profile VRM, Vertical, Surface Mount, with Latches, with Beveled Metal Pins, Signal 24, Power 70, 0.76µm(30µ")Gold (Au) Plating, Leadfree

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	Edge Card Connectors
Series	87786
Comments	Latches in Natural Color
Component Type	Edgecard to PCB
Overview	icool
Product Name	iCool™, VRM

Physical

Circuits (Loaded)	94
Circuits (maximum)	94
Circuits Detail	24 Signal, 70 Power
Color - Resin	Black, Natural
Durability (mating cycles max)	25
Entry Angle	Vertical (Top Entry)
Flammability	94V-0
Keying to Mating Part	Yes
Material - Metal	High Performance Alloy (HPA), Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
PCB Locator	Yes
PCB Retention	Yes
Packaging Type	Tray
Pitch - Mating Interface (in)	0.039 In
Pitch - Mating Interface (mm)	1.00 mm
Plating min: Mating (µin)	30.4
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	152.4
Plating min: Termination (µm)	3.81
Polarized to Mating Part	Yes
Temperature Range - Operating	-10°C to +105°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	1A, 4A
Voltage - Maximum	48V

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	245

Material Info

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Not Halogen-Free

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
87786Series

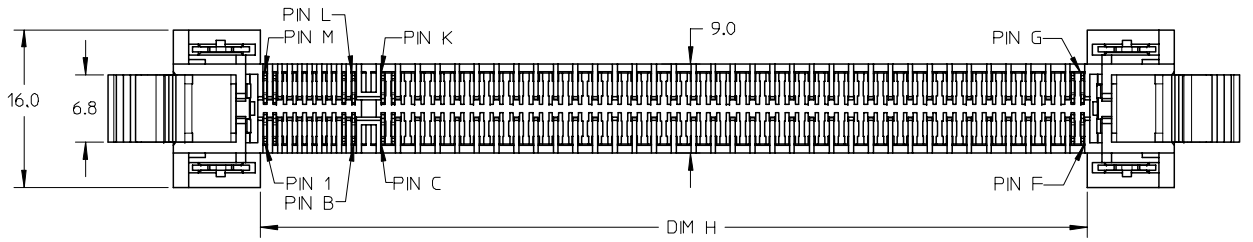
Mates With
Voltage Regulator Module

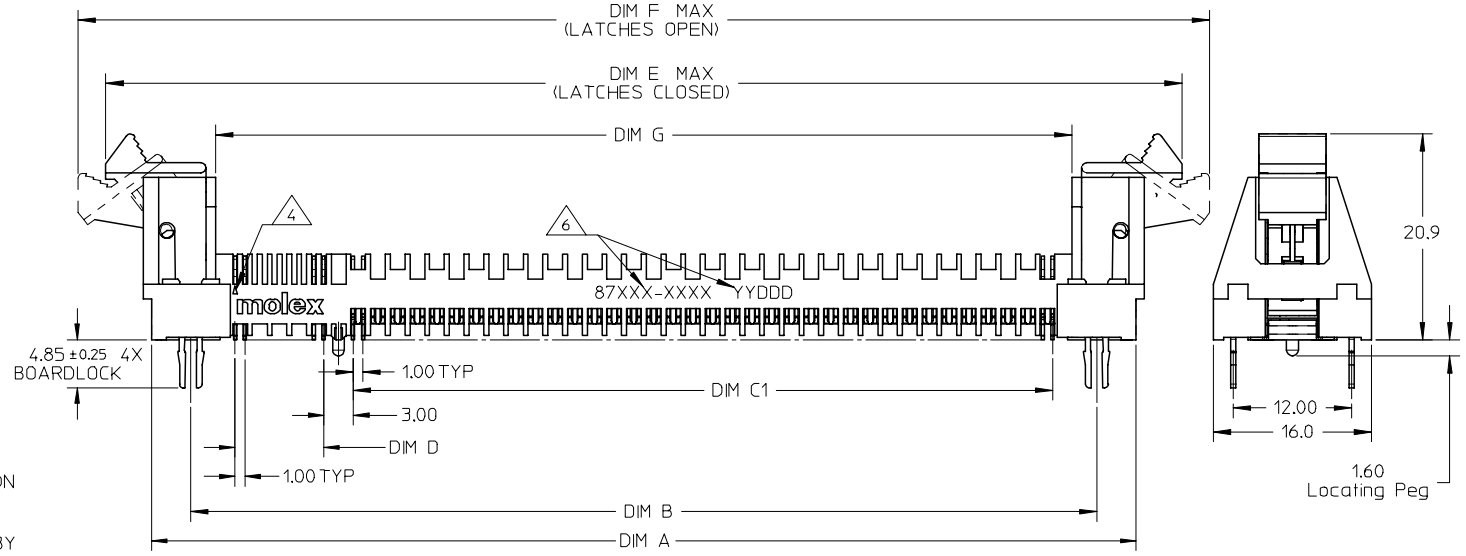
Reference - Drawing Numbers

Sales Drawing	SD-87786-001

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NOTES:

1. MATERIAL :
   HOUSING: LCP, GLASS FILLED,
   UL94V-0, COLOR: BLACK
   LATCHES: NYLON 46, GLASS FILLED,
   UL94V-0, COLOR: BEIGE
   CONTACTS, FORKLOCK & FITTING NAIL:
   COPPER ALLOY
2. FINISH:
   CONTACTS : 0.76um(30u") MIN GOLD OVER
   1.27um (50u") MIN NICKEL
   SMT TAIL : 3.81um (150u') MIN TIN OVER
   1.27um (50u") MIN NICKEL
3. THIS DRAWING IS BASED UPON PIN CONFIGURATION OF 20 SIGNALS AND 72 POWER PINS.
   a) THE OVERALL CONNECTOR LENGTH INCREASES BY 1.00MM FOR EVERY ADDITIONAL 2 SIGNAL PINS.
   b) THE OVERALL CONNECTOR LENGTH INCREASES BY 2.00MM FOR EVERY ADDITIONAL 2 POWER PINS.
4. △ MOLDED-PIN #1 INDICATOR
5. FORKLOCK IS TO BE SOLDERED ONTO PCB.
6. PART NUMBER AND DATE CODE (YYDDD) TO BE LASER MARKED ONTO HOUSING.
7. UNLESS SPECIFIED OTHERWISE, ALL DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.
8. SPECIFICATIONS:
   PRODUCT SPECIFICATION: PS-87786-008.

OBS TIN/LEAD P/N
EC NO: S2006-0791 2006/03/30
DRWN:MLONG 2006/03/30
CHKD:CGOH 2006/03/30
APPR:PTLIM 2006/03/30
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽(C)=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

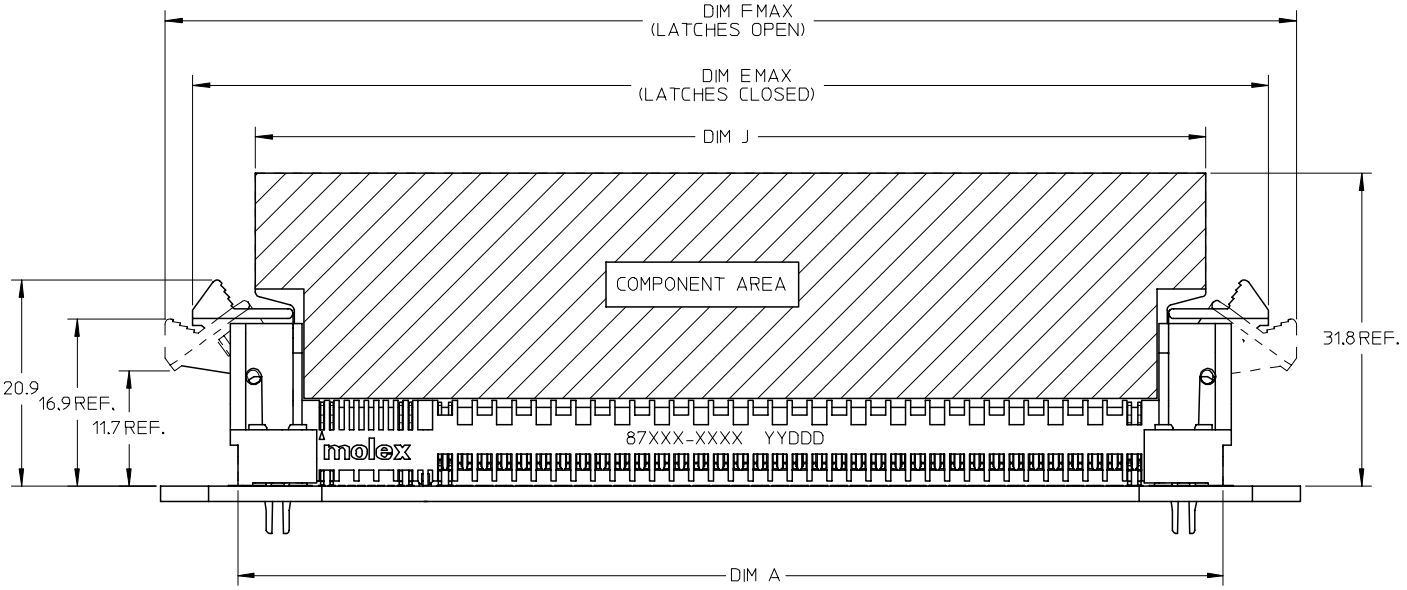
		DATE
DRAWN BY	KMGOH	2003/02/25
CHECKED BY	BHLOW	2003/03/05
APPROVED BY	PTLIM	2003/03/05

TITLE: LOW PROFILE VRM SOCKET W/LATCH, SMT

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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87786-001
SHEET NO.: 1 OF 4
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



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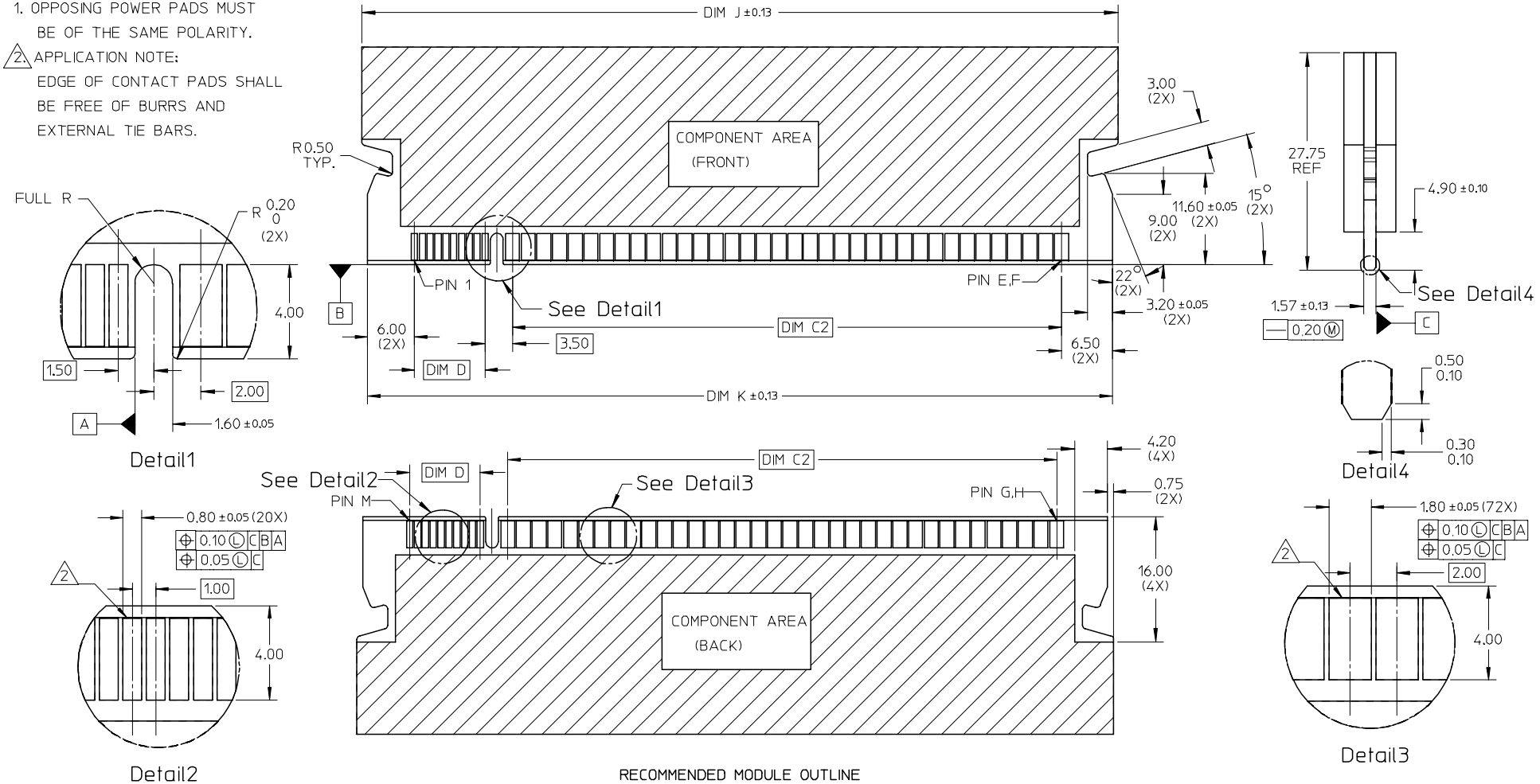
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DOCUMENT NO.: SD-87786-001
SHEET NO.: 2 OF 4

SIZE: A3

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NOTES:

1. OPPOSING POWER PADS MUST BE OF THE SAME POLARITY.
2. APPLICATION NOTE: EDGE OF CONTACT PADS SHALL BE FREE OF BURRS AND EXTERNAL TIE BARS.



RECOMMENDED MODULE OUTLINE

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DIMENSION STYLE	MM ONLY
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	KMGOH 2003/02/25
CHECKED BY / DATE	BHLOW 2003/03/05
APPROVED BY / DATE	PTLIM 2003/03/05
MATERIAL NO.	SEE TABLE

TITLE: LOW PROFILE VRM SOCKET W/LATCH, SMT

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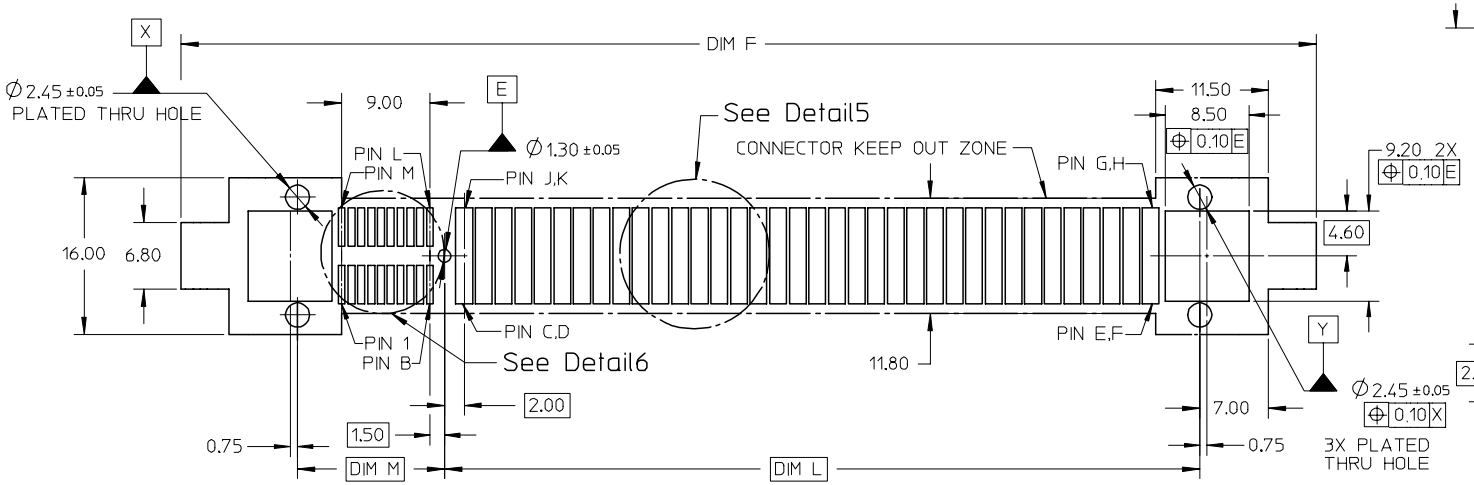
DOCUMENT NO. SD-87786-001

SHEET NO. 3 OF 4

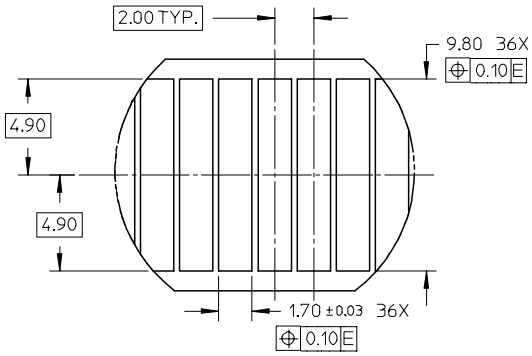
SIZE A3

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PART NUMBER	TYPE	SIGNAL	POWER	PLATING OPTION	DIM A	DIM B	DIM C1	DIM C2	DIM D	DIM E	DIM F	DIM G	DIM H	DIM J	DIM K	DIM L	DIM M	PIN NUMBER CONFIGURATION										
																		B	C	D	E	F	G	H	J	K	L	M
87786-1002	VRM10	20	72	TIN	100.00	92.00	71.00	70.00	9.00	110.50	116.80	87.00	84.00	96.50	95.00	77.00	15.00	10	11	12	81	82	83	84	153	154	155	164
87786-1011	VRM11	24	70	TIN	100.00	92.00	69.00	68.00	11.00	110.50	116.80	87.00	84.00	96.50	95.00	75.00	17.00	12	13	14	81	82	83	84	151	152	153	164

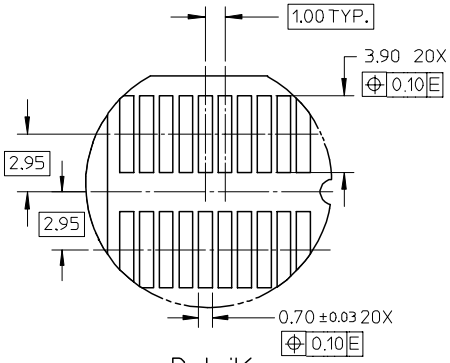


RECOMMENDED PCB LAYOUT



Detail5

POWER SOLDER PAD



Detail6

SIGNAL SOLDER PAD

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