

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

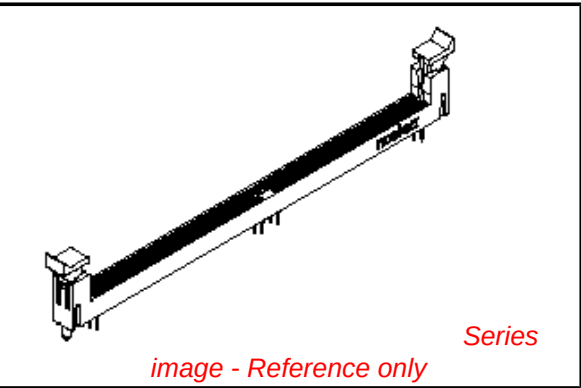
0877468001

Status:

Active

Description:

1.00mm (.039") Pitch DDR-II DIMM Socket, Vertical, Press-fit, 1.8V Center Keys, 4.20mm (.165") Tail Length, Beige Latches, 240 Circuits, 0.38µm(15µ") Selective Gold(Au) Plating, Lead-free



Documents:

3D Model

Drawing (PDF)

Product Specification PS-87746-002 (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	Memory Module Sockets
Series	87746
Comments	Latches in Off-White Color
Component Type	Socket
JEDEC Outline	MO-237
Product Name	DDR2 DIMM
Physical	
Circuits (Loaded)	240
Color - Resin	Black, Natural
Durability (mating cycles max)	25
Entry Angle	Vertical (Top Entry)
Keying to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
PC Tail Length (in)	0.165 In
PC Tail Length (mm)	4.20 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.180 In
PCB Thickness Recommended (mm)	4.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.039 In
Pitch - Mating Interface (mm)	1.00 mm
Plating min: Mating (µin)	15
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	15
Plating min: Termination (µm)	0.38
Temperature Range - Operating	-55°C to +85°C
Termination Interface: Style	Through Hole - Compliant Pin

Electrical	
Current - Maximum per Contact	0.5A
Voltage - Maximum	30V
Voltage Key	1.8V, Center

Material Info	
Old Part Number	87746-0001

Reference - Drawing Numbers	
Product Specification	PS-87746-002
Sales Drawing	SD-87746-001

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

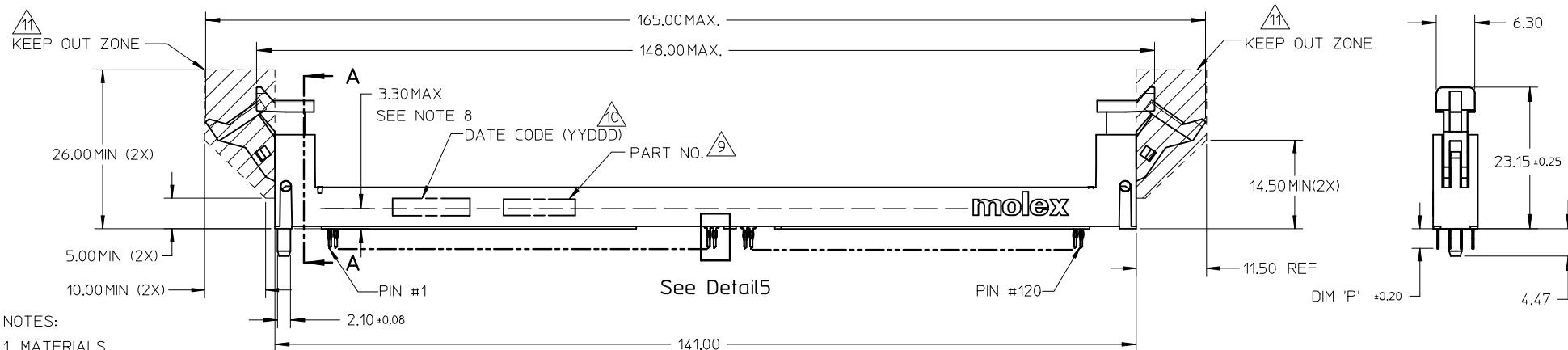
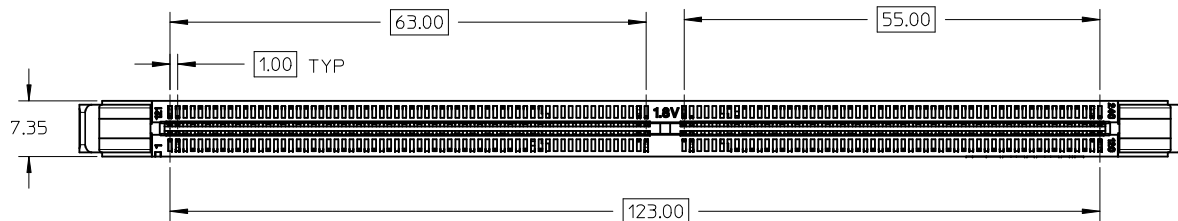
87746Series

Mates With

JEDEC standard 1.27mm modules

This document was generated on 04/13/2010

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NOTES:

1. MATERIALS

HOUSING - HIGH TEMP. NYLON, GLASS-FILLED, UL 94V-0.
 LATCH - HIGH TEMP. NYLON, GLASS-FILLED, UL 94V-0 - NATURAL
 POLYSULFONE, UL 94HB - CLEAR
 (COLOUR OF THE HOUSING AND LATCHES REFER TO TABLE ON SHEET 5 & 6).
 TERMINAL - PHOSPHOR BRONZE

2. FINISHES - CONTACT AREA - SEE TABLE IN SHEET 5.

TAIL AREA - 15µIN(0.38µM) TO 60µIN(1.52µM) MIN.
 90/10 TIN/LEAD OR TIN OVER 50µIN(1.27µM) MIN. NICKEL.

3. REFER TO PRODUCT SPEC. PS-87746-002 FOR PERFORMANCE SPECIFICATIONS.

4. PRODUCT SHALL BE PACKED IN TRAY.

5. CARD SLOT ACCEPTS 1.27±0.10 MM MODULE THICKNESS. (MEASURED OVER P.C. PADS)

6. RECOMMENDED MODULE LAYOUT SHALL BE AS PER JEDEC MO-237.

7. RECOMMENDED PLATING ON MODULE PADS: 30µIN(0.76µM) MIN. HARD GOLD OVER 79µIN(2µM) MIN. NICKEL.

8. DIMM MODULE SEATING PLANE FROM TOP OF PCB.

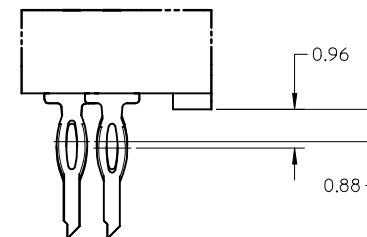
9. PART NUMBER SHALL BE MARKED LEGIBLY AS : 87746 XXXX

10. DATE CODE SHALL BE MARKED LEGIBLY AS SHOWN : YYDDD

11. KEEP OUT CROSS HATCHED ARE RESERVED FOR SOCKET

EJECTORS AT BOTH ENDS.

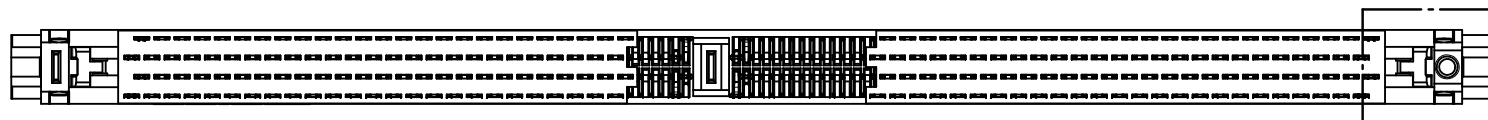
12. KEEP OUT ZONE IS HEIGHT LIMITED PER 11.



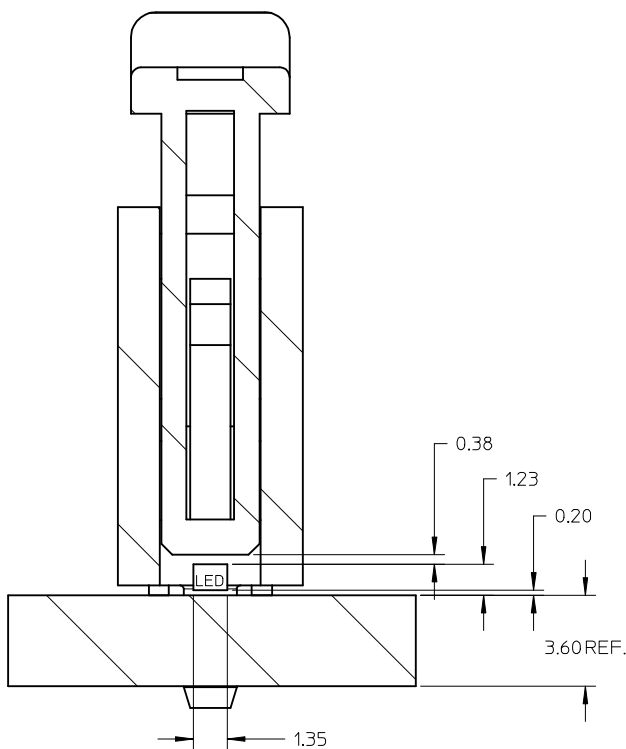
Detail5

PART NO UPDATED EC NO: S2009-0883 DRWN: TARUUGHAM CHYKD: CGTAN APPR: SILENI	QUALITY SYMBOLS ▽=0 ◻=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
				MM ONLY		NTS	METRIC		
				DRAWN BY DATE		TITLE DDR2 DIMM, 100MM PITCH 240 CKTS, VERT. PRESSFIT			
				CGOH 2002/06/13					
				CHECKED BY DATE					
DSOH 2002/08/07									
APPROVED BY DATE		MOLEX MOLEX INCORPORATED							
SKTOH 2002/08/08									
MATERIAL NO.		DOCUMENT NO.				SHEET NO.			
SEE TABLE		SD-87746-001				1 OF 6			
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							

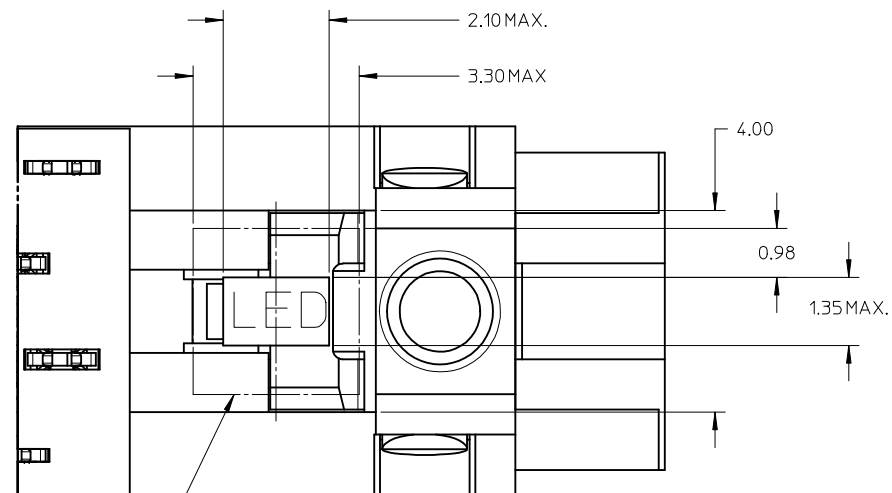
10 9 8 7 6 5 4 3 2 1



Detail3



SECTION A-A



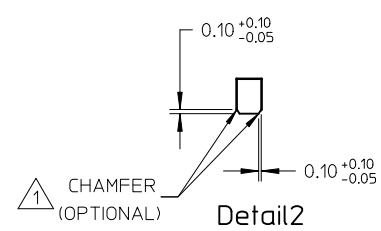
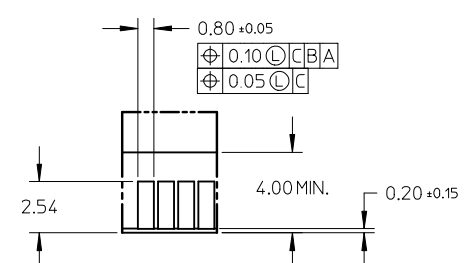
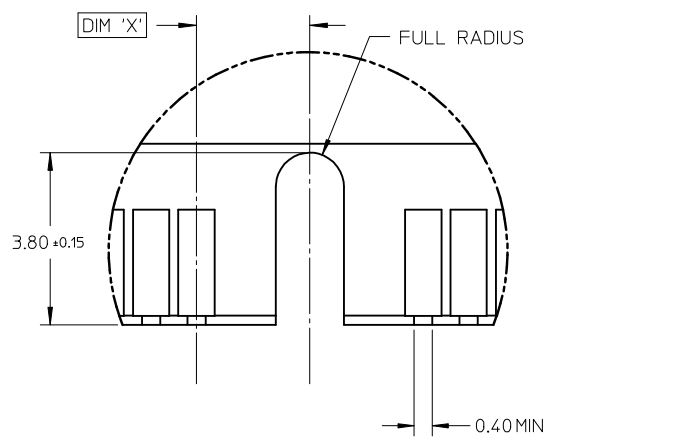
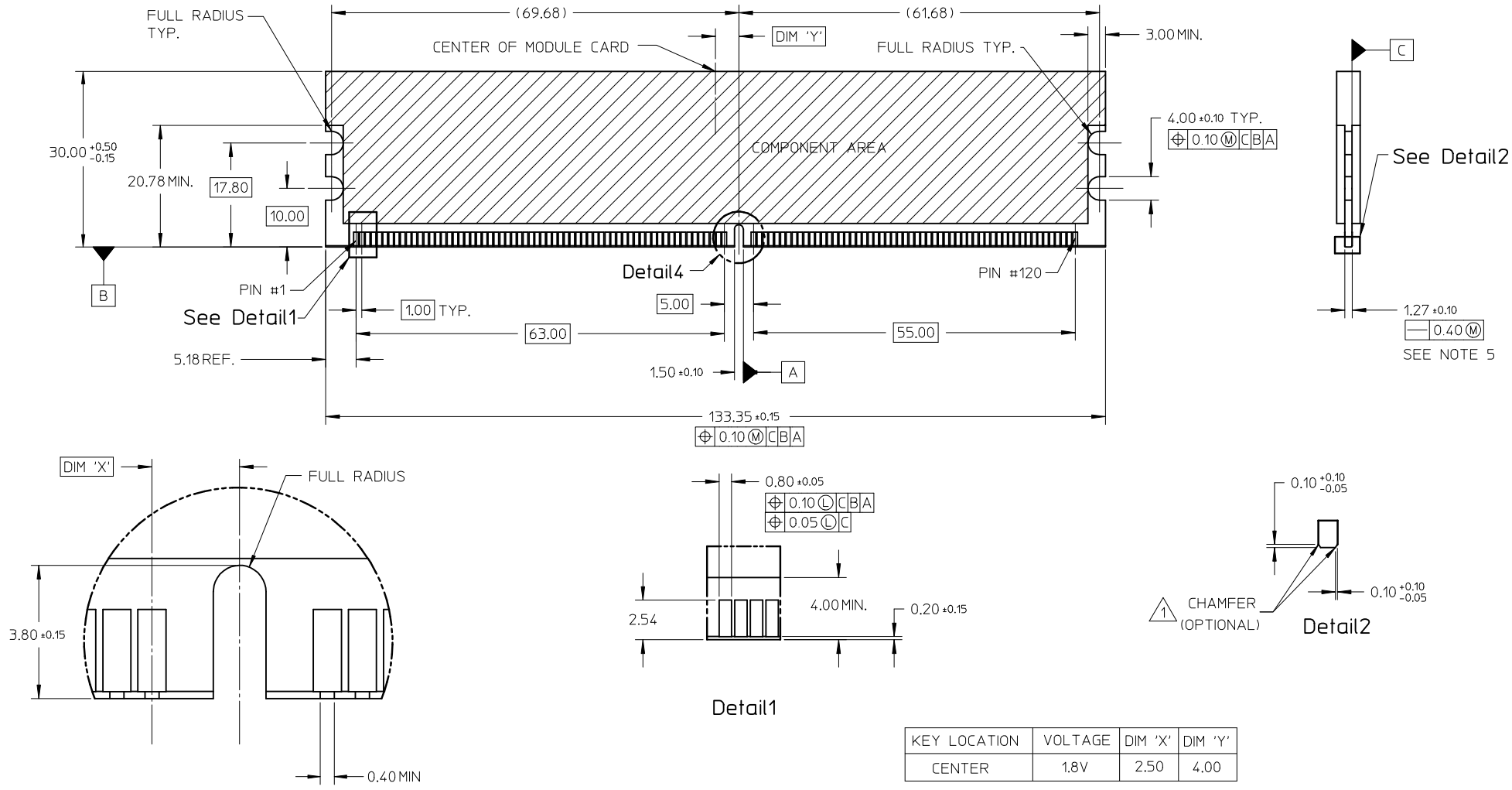
LED PLACEMENT AREA

Detail3

PART NO UPDATED EC NO: S2009-0883 DRWN: TARUMUGHAM CHKD: CGTAN APPR: SLENI	2009/05/22 2009/05/22 2009/05/25	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				4 PLACES 3 PLACES 2 PLACES 1 PLACE ANGULAR ± 5 °	mm	INCH	DRAWN BY CGOH	DATE 2002/06/13	TITLE DDR2 DIMM, 1.00MM PITCH 240 CKTS, VERT. PRESSFIT					
					± ---	± ---	CHECKED BY DSOH	DATE 2002/08/07						
					± ---	± ---	APPROVED BY SKTOH	DATE 2002/08/08	MOLEX INCORPORATED					
					± 0.20	± ---	MATERIAL NO.						DOCUMENT NO.	
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87746-001				2 OF 6	
							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

RECOMMENDED MODULE LAYOUT



KEY LOCATION	VOLTAGE	DIM 'X'	DIM 'Y'
CENTER	1.8V	2.50	4.00

NOTES :
1 MODULE CARD USED IN PRODUCT TESTING ARE CHAMFERED.

PART NO UPDATED EC NO: S2009-0883 DRWN: TARUMUGHAM CHKD: CGTAN APPR: SILENI REV D8	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY CGOH	DATE 2002/06/13	TITLE DDR2 DIMM, 1.00MM PITCH 240 CKTS, VERT. PRESSFIT					
			4 PLACES	±---	±---	CHECKED BY DSOH	DATE 2002/08/07						
			3 PLACES	±---	±---	APPROVED BY SKTOH	DATE 2002/08/08						
			2 PLACES	±0.20	±---								
			1 PLACE	±---	±---								
			ANGULAR ± 5 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87746-001		3 OF 6			
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

9 8 7 6 5 4 3 2 1

	10	9	8	7	6	5	4	3	2	1																																																																								
F	<table><tr><th>PART NO.</th><th>VOLTAGE KEY POS.</th><th>VOLTAGE KEY TEXT</th><th>TAIL LENGTH P±0.20</th><th>RECOMMENDED PCB THICKNESS</th><th>LUBRICATION</th><th>PLATING OPTION</th><th>LATCH COLOR</th><th>PLATING OPTION</th><th>HOUSING COLOR</th></tr><tr><td>87746-0001</td><td rowspan="2">CENTER</td><td rowspan="2">1.8V</td><td>4.20</td><td>4.57</td><td rowspan="2">NO</td><td rowspan="2">SELECTIVE GOLD 0.38uM/ 15uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL</td><td rowspan="6">NATURAL (OFF WHITE)</td><td rowspan="17">TIN/LEAD</td><td rowspan="17">BLACK</td></tr><tr><td>87746-1001</td><td>3.30</td><td>3.60</td></tr><tr><td>87746-0011</td><td rowspan="2">CENTER</td><td rowspan="2">1.8V</td><td>4.20</td><td>4.57</td><td rowspan="2">NO</td><td rowspan="4">SELECTIVE GOLD 0.76uM/ 30uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL</td></tr><tr><td>87746-1011</td><td>3.30</td><td>3.60</td></tr><tr><td>87746-0091</td><td rowspan="2">CENTER</td><td rowspan="2">1.8V</td><td>4.20</td><td>4.57</td><td rowspan="2">YES</td></tr><tr><td>87746-1091</td><td>3.30</td><td>3.60</td></tr><tr><td>87746-5001</td><td rowspan="2">CENTER</td><td rowspan="2">1.8V</td><td>4.20</td><td>4.57</td><td rowspan="2">NO</td><td rowspan="2">SELECTIVE GOLD 0.38uM/ 15uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL</td></tr><tr><td>87746-5101</td><td>3.30</td><td>3.60</td></tr><tr><td>87746-5011</td><td rowspan="2">CENTER</td><td rowspan="2">1.8V</td><td>4.20</td><td>4.57</td><td rowspan="2">NO</td><td rowspan="4">SELECTIVE GOLD 0.76uM/ 30uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL</td></tr><tr><td>87746-5111</td><td>3.30</td><td>3.60</td></tr><tr><td>87746-5091</td><td rowspan="2">CENTER</td><td rowspan="2">1.8V</td><td>4.20</td><td>4.57</td><td rowspan="2">YES</td></tr><tr><td>87746-5191</td><td>3.30</td><td>3.60</td></tr></table>										PART NO.	VOLTAGE KEY POS.	VOLTAGE KEY TEXT	TAIL LENGTH P±0.20	RECOMMENDED PCB THICKNESS	LUBRICATION	PLATING OPTION	LATCH COLOR	PLATING OPTION	HOUSING COLOR	87746-0001	CENTER	1.8V	4.20	4.57	NO	SELECTIVE GOLD 0.38uM/ 15uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL	NATURAL (OFF WHITE)	TIN/LEAD	BLACK	87746-1001	3.30	3.60	87746-0011	CENTER	1.8V	4.20	4.57	NO	SELECTIVE GOLD 0.76uM/ 30uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL	87746-1011	3.30	3.60	87746-0091	CENTER	1.8V	4.20	4.57	YES	87746-1091	3.30	3.60	87746-5001	CENTER	1.8V	4.20	4.57	NO	SELECTIVE GOLD 0.38uM/ 15uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL	87746-5101	3.30	3.60	87746-5011	CENTER	1.8V	4.20	4.57	NO	SELECTIVE GOLD 0.76uM/ 30uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL	87746-5111	3.30	3.60	87746-5091	CENTER	1.8V	4.20	4.57	YES	87746-5191	3.30	3.60	F
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