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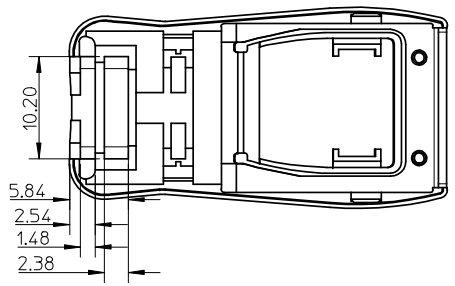
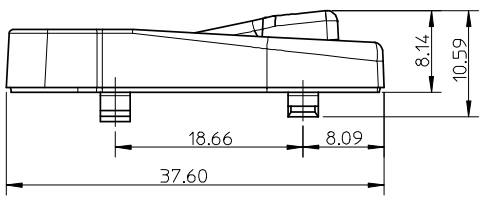
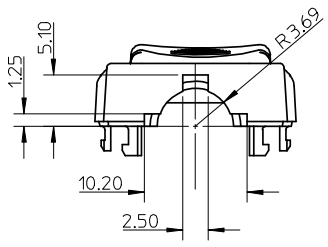
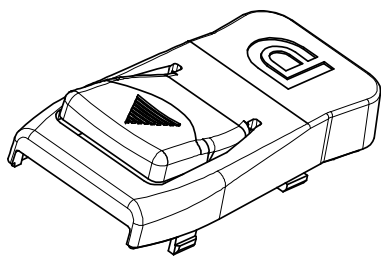
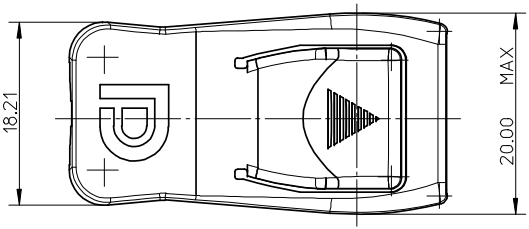
What is "[Embedded - Microcontrollers](#)"?

"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "[Embedded - Microcontrollers](#)"

Details

Product Status	Not For New Designs
Core Processor	RX
Core Size	32-Bit Single-Core
Speed	32MHz
Connectivity	I ² C, SCI, SPI, USB
Peripherals	DMA, LVD, POR, PWM, WDT
Number of I/O	30
Program Memory Size	512KB (512K x 8)
Program Memory Type	FLASH
EEPROM Size	8K x 8
RAM Size	64K x 8
Voltage - Supply (Vcc/Vdd)	1.8V ~ 3.6V
Data Converters	A/D 10x12b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	48-WFQFN Exposed Pad
Supplier Device Package	48-HWQFN (7x7)
Purchase URL	https://www.e-xfl.com/product-detail/renesas-electronics-america/r5f51118adne-ua



NOTES:
1.MATERIAL : HGIH TEMPERATURE THERMAL PLASTIC, UL94HB, BLACK.
2.PRODUCT COMPLANT TO ROHS DIERTIVE 2002/95/EC
AND ELV DIRECTIVE 2000/53/EC

NEW RELEASE EC NO: SH2008-0288 DRWN:HE 2008/04/07 CHKD:RZHANG 2008/04/08 APPR:HWANG 2008/04/25	DESCRIPTION REV	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY QWFANG	DATE 2006/09/05	TITLE COVER-UP FOR DISPLAYPORT			
			4 PLACES	± ---	± ---	CHECKED BY IWANG	DATE 2006/09/05				
			3 PLACES	± ---	± ---	APPROVED BY JNCHEN	DATE 2006/09/05	MOLEX MOLEX INCORPORATED			
			2 PLACES	± 0.2	± ---	MATERIAL NO. 47271-0004	DOCUMENT NO. SD-47271-004				
			1 PLACE	± 0.2	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
			ANGULAR ± 2 °		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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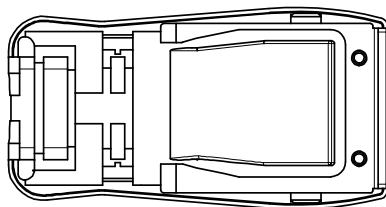
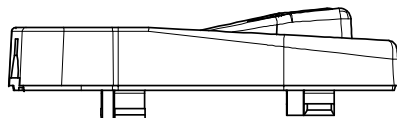
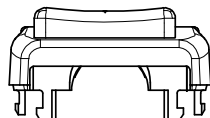
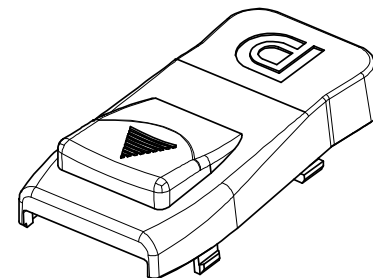
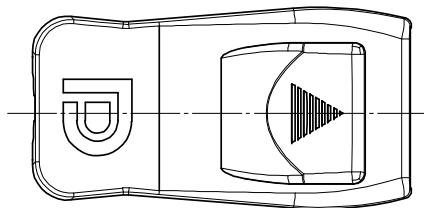
E

D

C


B

A



NOTES:

1. THIS COMPONENT'S BUTTON IS FIXED.
2. UNSPECIFIED DIMENSIONS ARE SAME AS 47271-0004.

SEE SHEET1 EC NO: SH2008-0288 DRWN:HHE CHKD:RZHANG APPR:HWANG REV B	2008/04/07 2008/04/25	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DRAWN BY QWFANG		DATE 2006/09/05	TITLE COVER-UP FOR DISPLAYPORT				
					4 PLACES	± ---	± ---	CHECKED BY IWANG				DATE 2006/09/05		
					3 PLACES	± ---	± ---	APPROVED BY JNCHEN				DATE 2006/09/05		
					2 PLACES	± 0.2	± ---	MATERIAL NO. 47271-1004				DOCUMENT NO. SD-47271-004	SHEET NO. 2 OF 2	
					1 PLACE	± 0.2	± ---							
				ANGULAR ± 2 °				MOLEX MOLEX INCORPORATED						
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

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