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

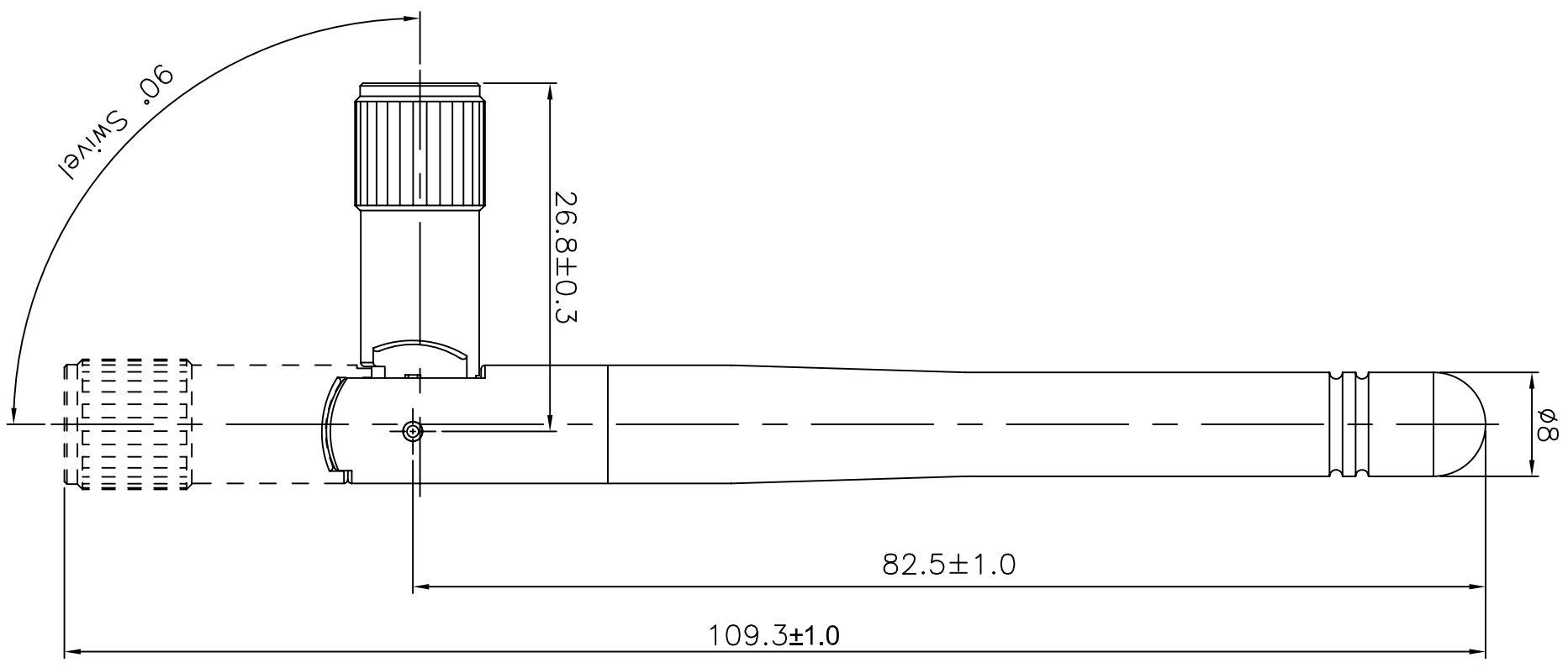
"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" 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 | Active |
| Core Processor | PIC |
| Core Size | 8-Bit |
| Speed | 40MHz |
| Connectivity | I ² C, SPI, UART/USART |
| Peripherals | Brown-out Detect/Reset, HLVD, POR, PWM, WDT |
| Number of I/O | 25 |
| Program Memory Size | 48KB (24K x 16) |
| Program Memory Type | FLASH |
| EEPROM Size | - |
| RAM Size | 3.8K x 8 |
| Voltage - Supply (Vcc/Vdd) | 4.2V ~ 5.5V |
| Data Converters | A/D 10x10b |
| Oscillator Type | Internal |
| Operating Temperature | -40°C ~ 85°C (TA) |
| Mounting Type | Surface Mount |
| Package / Case | 28-SOIC (0.295", 7.50mm Width) |
| Supplier Device Package | 28-SOIC |
| Purchase URL | https://www.e-xfl.com/product-detail/microchip-technology/pic18f2515-i-so |

| REVISION RECORD | | | | |
|-----------------|-----|-------------|------|------|
| REV | ECO | DESCRIPTION | DRFT | CHKD |
| | | | | |



NOTE:

ELECTRICAL PROPERTIES

1. DESCRIPTION : 1/4λ SWIVEL TYPE DIPOLE ANTENNA
 ø9x82.5+SMA(MALE)
 (MALE BODY MALE PIN) CONNECTOR
2. MODEL NO. : AN-A1
3. FREQUENCY : 2.4G ~ 2.5G
4. IMPEDANCE : 50 Ohms nominal
5. V.S.W.R. : 2.0 max. IN BAND
6. GAIN : NOMINAL GAIN 2 dBi.
7. ADMITTED POWER RADIATION : 1W
8. TYPE OF RADLATION : TOROIDAL
9. POLARIZATION : VERTICAL
10. ELECTRICAL LENGTH : 1/4 λ , DIPOLE
11. RADIATION : Omni
12. CONNECTOR TYPE :SMA(MALE) CONNECTOR

MECHANICAL PROPERTIES

1. CABLE : RG-178, 50ohm
2. OPERATING TEMPERATURE RANGE : -20°C~+65°C
3. STORAGE TEMPERATURE RANGE : -30°C~+75°C
4. ANTENNA COVER : TPE
5. ANTENNA BASE : PBT+PC
6. COLOR : BLACK.
7. ROHS COMPLIANT

PART NUMBER : W1010

| DETACHED LISTS | |
|----------------------------------|--------|
| MM TOLERANCES EXCEPT AS NOTED | (INCH) |
| .0 ± 0.2 | ± |
| .00 ± 0.15 | ± |
| .000 ± 0.075 | ± |
| ANGLES ± 0.5 | ± |
| THIRD ANGLE PROJECTION | |

| | | | |
|---|--|--|--|
| | | | |
| <p>PULSE RISE ELECTRONIC CO., LTD</p> | | | |
| <p>TITLE ANTENNA ø9x82.5mm</p> | | | |
| <p>SMA(MALE)(MALE BODY MALE PIN)</p> | | | |
| DFTO catherine CHKD SANDY MFO LMJ APPVL JEFF | | DATE 02/14/07 DATE 02/14/07 DATE 02/14/07 DATE 02/14/07 | |
| DRAWING NO. W1010-D /PART NO. W1010 | | SIZE REV A3 A | |
| DO NOT SCALE DRAWING | | SHEET 1 OF 1 | |

8 7 6 5 4 3 2 1