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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.

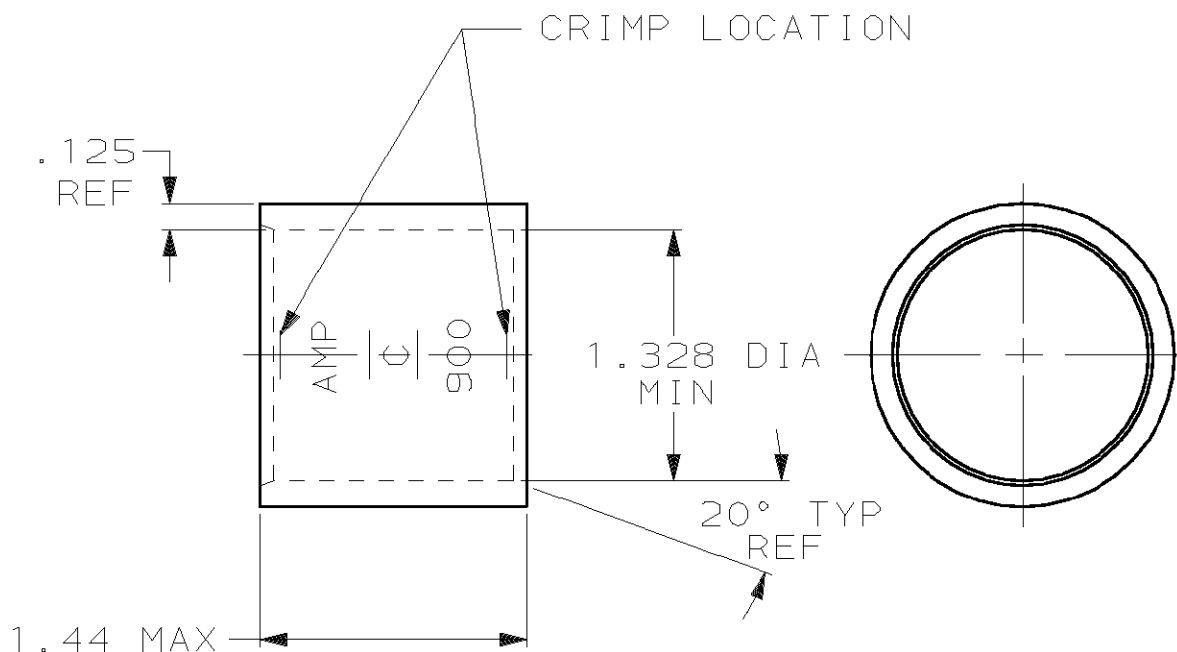
Applications of "[Embedded - Microcontrollers](#)"

Details

Product Status	Active
Core Processor	ARM® Cortex®-M4
Core Size	32-Bit Single-Core
Speed	72MHz
Connectivity	CANbus, I ² C, IrDA, SD, SPI, UART/USART
Peripherals	DMA, I ² S, LCD, LVD, POR, PWM, WDT
Number of I/O	56
Program Memory Size	64KB (64K x 8)
Program Memory Type	FLASH
EEPROM Size	2K x 8
RAM Size	16K x 8
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V
Data Converters	A/D 31x16b; D/A 1x12b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 105°C (TA)
Mounting Type	Surface Mount
Package / Case	80-LQFP
Supplier Device Package	80-FQFP (12x12)
Purchase URL	https://www.e-xfl.com/product-detail/nxp-semiconductors/mk30dx64vlk7

LOC	DIST	P	F	LTR	DESCRIPTION	DATE	APPROVED
G	86			F	REV PER OG3A-0637-01	030CT02	JR/MS

1 PREPRODUCTION - FASR REQ



850-950 MCM	CLEANED, UNPLATED	1-324455-0
	TIN PL PER ASTM B545 .000150 MIN THK	324455
RANGE	FINISH	PART NO

DO NOT SCALE PRINT.
UNLESS SPECIFIED
DIMENSIONS IN INCHES
TOLERANCES ON:
2 PLC DEC ± -
3 PLC DEC ± -
ANGLES ± -

MATERIAL
COPPER
ASTM-B-75
ANNEALED

FINISH
SEE TABLE

DR 1/16/89
P FORTNEY

CHK 6/20/89
MS FEHER

APPD 6/20/89
WJ VOCKROTH

APPD 6/20/89
R ADAMS

PRODUCT SPEC
-

APPLICATION SPEC
-

WEIGHT .263 LB.

AMP

AMP INCORPORATED
Harrisburg, Pa. 17105

NAME

WIRE SPLICE, PARALLEL,
AMPOWER, WIRE SIZE: 900 MCM

SIZE

A

FSCM NO

00779

DRAWING NO

324455

SCALE

1:1

SHEET

1 OF 1