

PenMount DMC5100 & 5600 Touch Screen Controller IC

DMC5100 and DMC5600 is a set of USB interface touch screen controller in the PenMount family.

The DMC5100 role-playing in PenMount touch screen kits is:

- to read analog signal from touch screen and transforms it into digital signal by ADC
- to construct packet according to PenMount's protocol



The DMC5600 role-playing in PenMount touch screen kits is:

- to be the USB controller in 'device' mode

(DMC5100 is designed with ATMEL ATmega8L-8AU)

(DMC5600 is designed with CYPRESSCY7C63001C-SXC)



DMC5100 Electrical Specifications

RoHS compliance (SGS test report number: [CE/2005/65481](#))

Package:	TQFP 32-pin
Process	Low-power, High-speed CMOS
Nature:	8-bit RISC microprocessor with built-in functions including 10-bit ADC, UART, Timer, Counter, Comparator, Watchdog, Memory, etc.
Voltage Range:	+ 2.7V to +5.5V
Power Consumption: (at 4 MHz, 3V)	Active: 3.6 mA / Idle Mode: 1.0mA Power Down Mode: 0.5 μ A
Operating Temperature:	-40° C to +85° C
Storage Temperature:	-65° C to +150° C

Apex Material Technology Corp.

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DMC5600 Electrical Specifications

RoHS compliance (SGS test report number: [L-05/0393](#))

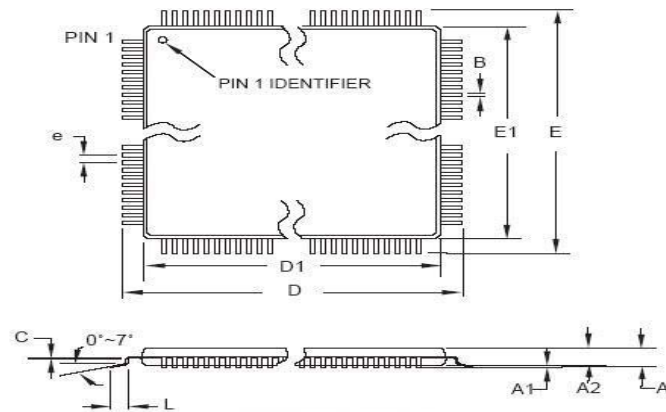
Package:	SOIC 20-pin
Process	Low-power, High-speed CMOS
Nature:	8-bit RISC microprocessor -6 MHz external ceramic resonator or crystal -12 MHz internal operation -USB optimized instruction set
Voltage Range:	+ 4.0V to +5.25V DC
Operating Temperature:	0° C to +70° C
Storage Temperature:	-65° C to +150° C

Driver Software

Windows 98/Me, Windows 2000/2003, Windows XP (WHQL), Linux (up to kernel 2.6)

Windows CE 4.1 / 4.2 / 5.0 (for X86, Armv4, Armv4i platform)

DMC5100 Mechanical Size:



COMMON DIMENSIONS
(Unit of Measure = mm)

SYMBOL	MIN	NOM	MAX	NOTE
A	-	-	1.20	
A1	0.05	-	0.15	
A2	0.95	1.00	1.05	
D	8.75	9.00	9.25	
D1	6.90	7.00	7.10	Note 2
E	8.75	9.00	9.25	
E1	6.90	7.00	7.10	Note 2
B	0.30	-	0.45	
C	0.09	-	0.20	
L	0.45	-	0.75	
e	0.80 TYP			

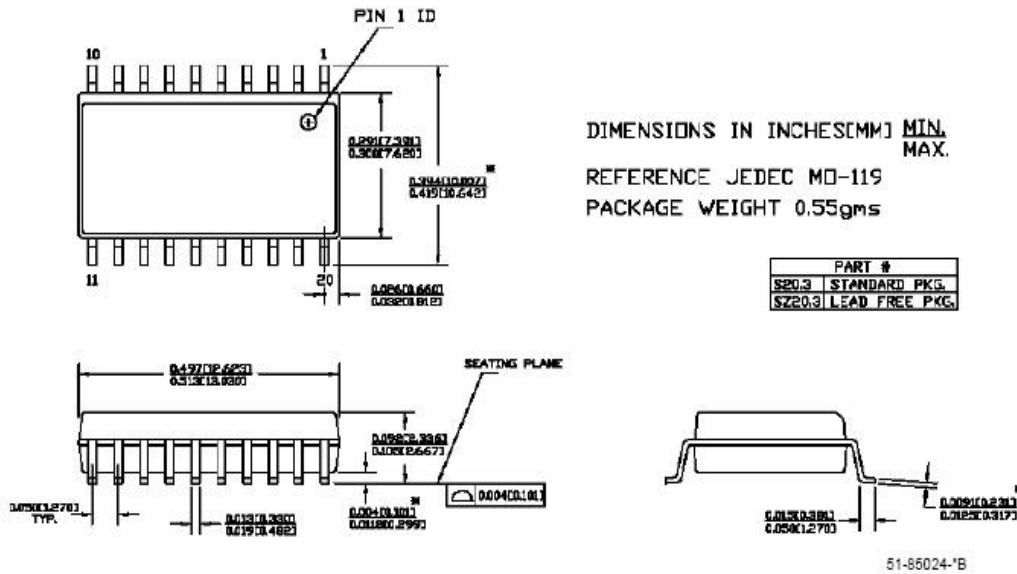
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DMC5600 Mechanical Size:

20 Lead (300 MIL) SOIC – S5



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