



UM3128COB

8-Digit Single-Chip COB Calculator

Features

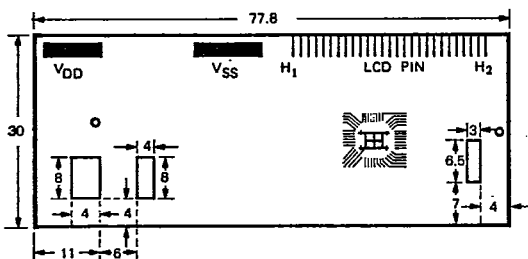
- Reduce assembly process, improve production cycle time
- High quality
- Cost reduction
- Can be supplied at and reliable earliest possible time
- Number of digits
 - 8 digits (rough estimate calculation possible)
- Calculations
 - Standard four function (+, −, ×, ÷)
 - Chain multiplication and division
 - Auto-constant calculation (constant: multiplicand, divisor, addend and subtrahend)
 - Square and reciprocal calculations
 - Mark-up and mark-down calculations
 - Extraction of square root
 - Percentage calculations
 - Power calculations
 - Rough estimate calculations
 - Memory calculations
- Decimal point system
 - Complete floating decimal point system
- Display format
 - 8 digits + sign (−, E, and M,) leading zero suppression zero shift
- Negative number indication
 - Number + minus (−) sign

Characteristics

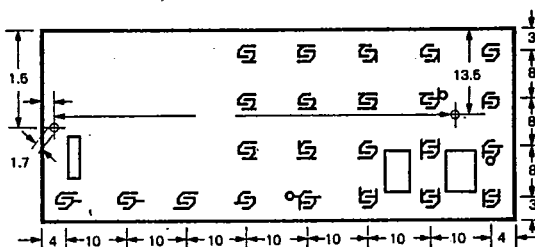
- Supply voltage: 1.3 - 1.7V
- Dissipation current 5 - 8μA
- Other characteristics same as UM3128 spec.

STANDARD PCB DIMENSION Max. thickness: 1.65 mm. FR-4 material. (unit: mm)

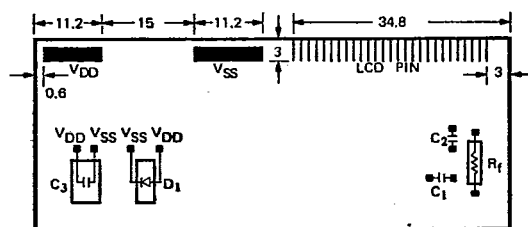
TOP VIEW



REVERSE



COMPONENT LAYOUT



Components $C_1 = C_2 = 0.1\mu F$ $D_1 =$ LIGHT EMITTING DIODE
 $C_3 = 33\mu F$ LCD: 1/3 duty 1/2 bias 1.2 pitch
 $R_1 = 470K\Omega$

KEY LOCATION

		7	8	9	÷	%
		4	5	6	×	M _C ^R
		1	2	3	-	M-
ON/ AC	CE/ C	√	0	=	+	M+

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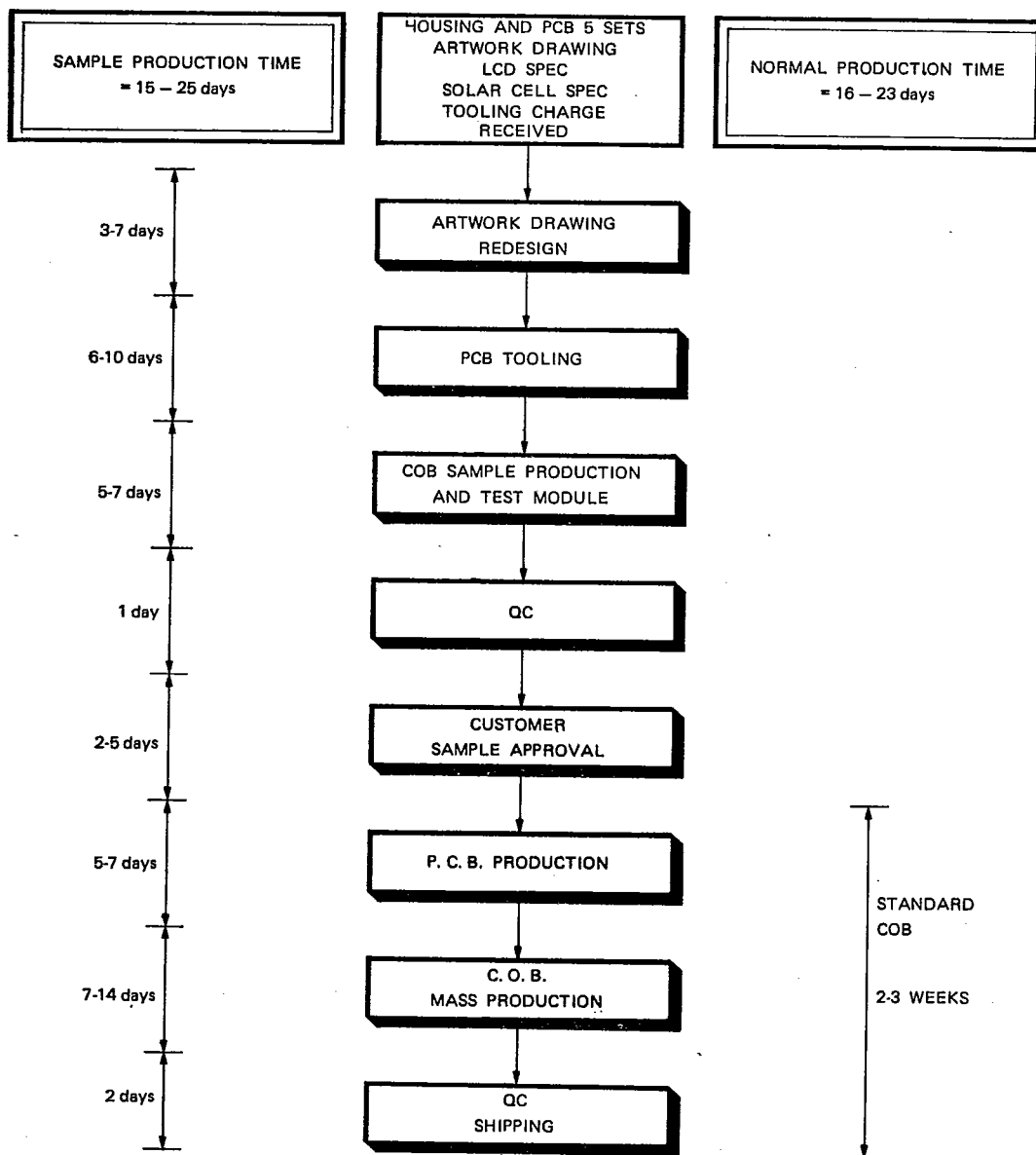
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DT-99-13-02



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Calculator Chip On Board (C.O.B) Processing Cycle



- * MINIMUM ORDER QUANTITY: 50K UNITS FOR EACH MODEL.
- * TOOLING CHARGE: US\$400, FOR EACH MODEL. TOOLING CHARGE MUST BE PAID WHEN PCB DRAWING IS SENT TO UMC. IF SHIPMENT QUANTITY IS LARGER THAN 100K, TOOLING CHARGE IS REFUNDED.

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Solar Powered Calculator

