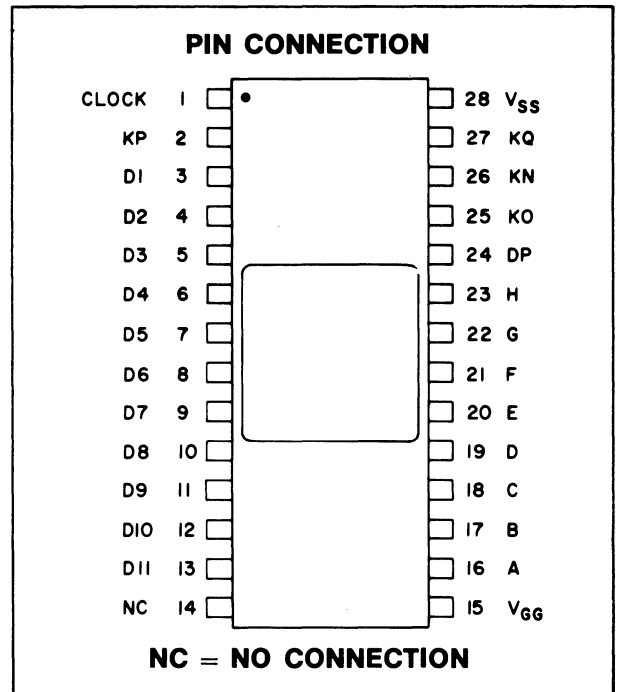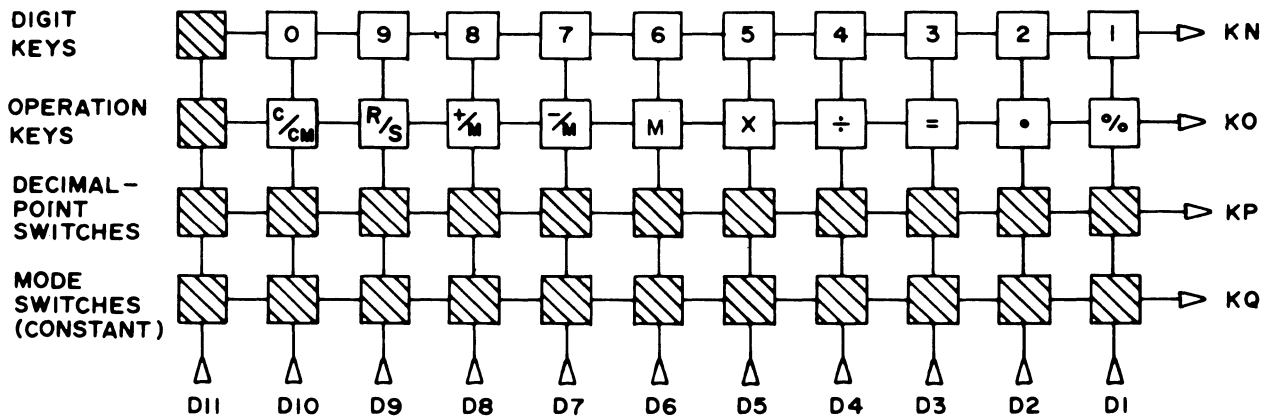# MK 5022AN

DESCRIPTION

The MK 5022 A is a five-function (+, −, X, ÷, %), 8-digit calculator with fully independent memory. Only 20 keys are required to implement the five functions with memory, resulting in a unit which is compact, economical, and simple to operate. Additional features are automatic constant, floating negative sign, algebraic entry, floating decimal point, chain calculations, credit balance, leading zero suppression, display' blanking during calculations, and internal debouncing and encoding of keyboard inputs.

Low power dissipation, broad supply voltage range, a single power supply, and an internal clock oscillator make the MK 5022 A ideal for battery-operated hand-held calculators with lower system costs.

PIN CONNECTION

CLOCK	1	28	V_{SS}
KP	2	27	KQ
DI	3	26	KN
D2	4	25	KO
D3	5	24	DP
D4	6	23	H
D5	7	22	G
D6	8	21	F
D7	9	20	E
D8	10	19	D
D9	11	18	C
DIO	12	17	B
DII	13	16	A
NC	14	15	V_{GG}

NC = NO CONNECTION

KEY MATRIX

DISPLAY FONT

Consumer

SCHEMATIC
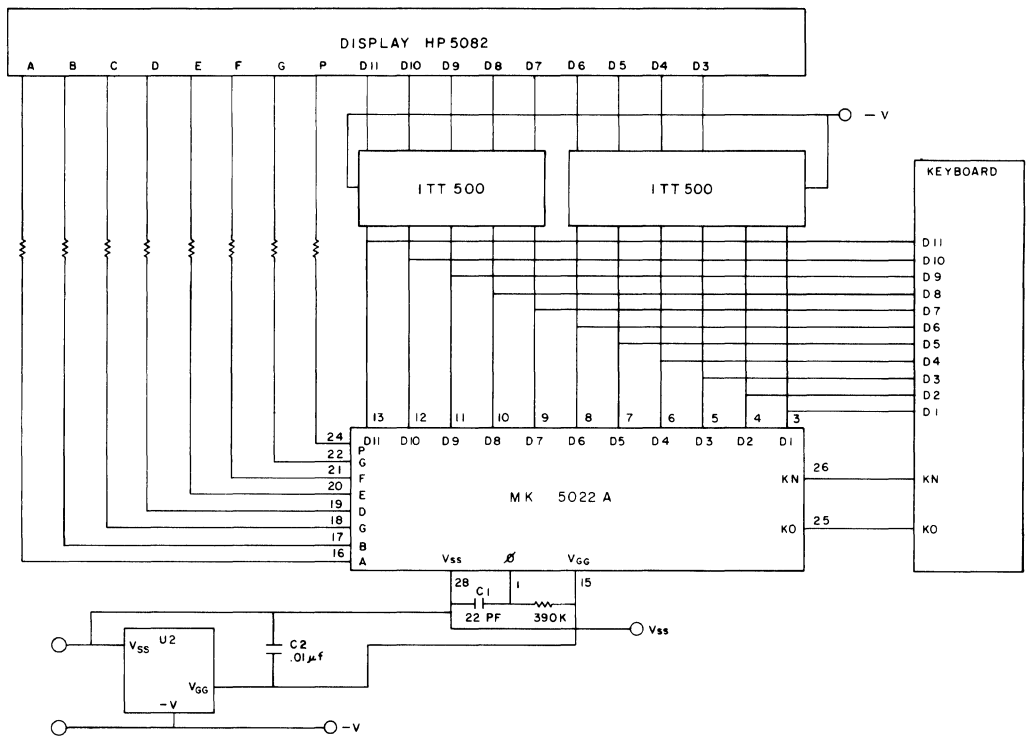
PROBLEM	KEY ENTRIES	REMARKS	DISPLAY
MEMORY ADD	M }	{ Clears	
	C }	{ Memory	
+27.84	C	Clears display	0.
+56.352	27.84		27.84
	M		27.84
	+	Memory in use indicator	L 27.84
	56.352		L 56.352
	M }	{ adds display	L 56.352
	+ }	{ to memory	L 56.352
	R/S	recals total	L 84.192
MEMORY SUBTRACT	M }	{ clears	
	C }	{ memory	84.192
+27.20	C	clears display	0.
-56.35	27.20		27.20
	M }	{ adds display	27.20
	+ }	{ to memory	L 27.20
	56.35		L 56.35
	M }	{ subtracts display	L 56.35
	– }	{ from memory	L 56.35
	R/S	recalls difference memory has credit balance	L -29.15
MEMORY STORE	M }	Scratchpad	
	C }		-29.15
	C		0.
9/4, 9/5, 9/6, 9X4	9	{ constant dividend	9.
	M	{ stores	9.
	R/S	{ in memory	L 9.
	÷		L 9.
	4	division # 1	L 4.
	=	quotient # 1	L 2.25
MEMORY RECALL	R/S	recalls memory	L 9.
	÷		L 9.
	5	divisor # 2	L 5.
	=	quotient # 2	L 1.8
	R/S	recalls memory	L 9.
	÷		L 9.
	6	divisor # 3	L 6.
	=	quotient # 3	L 1.5
	R/S		L 9.
	X		L 9.
	4	multiplier	L 4.
	=	product	L 36.