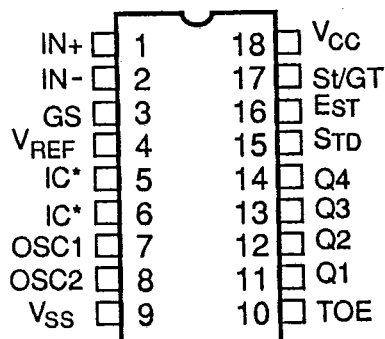# HM9270

DTMF Receiver

Features

- Complete receiver in an 18-pin package
- Excellent performance
- CMOS, single 5 volt operation
- Minimum board area
- Central office quality
- Low power consumption

Applications:

- Telephone answer machine
- PABXs
- Central office
- Key system
- Remote control
- Remote data entry

Pin Assignment

HM9270

IN+	1	18 V_{CC}
IN-	2	17 St/GT
GS	3	16 E_{ST}
V_{REF}	4	15 S_{TD}
IC*	5	14 Q4
IC*	6	13 Q3
OSC1	7	12 Q2
OSC2	8	11 Q1
V_{SS}	9	10 TOE

"*" Connect to V_{ss}

Decoder Output Table:

Flow	Fhigh	KEY	TOE	Q4	Q3	Q2	Q1
697	1209	1	H	0	0	0	1
697	1336	2	H	0	0	1	0
697	1477	3	H	0	0	1	1
770	1209	4	H	0	1	0	0
770	1336	5	H	0	1	0	1
770	1477	6	H	0	1	1	0
852	1209	7	H	0	1	1	1
852	1336	8	H	1	0	0	0
852	1477	9	H	1	0	0	1
941	1336	0	H	1	0	1	0
941	1209	*	H	1	0	1	1
941	1477	#	H	1	1	0	0
697	1633	A	H	1	1	0	1
770	1633	B	H	1	1	1	0
852	1633	C	H	1	1	1	1
941	1633	D	H	0	0	0	0
-	-	ANY	L	Z	Z	Z	Z

L=LOGIC LOW, H=LOGIC HIGH, Z=HIGH IMPEDANCE