

# 4002

## 320-BIT RAM AND 4-BIT OUTPUT PORT

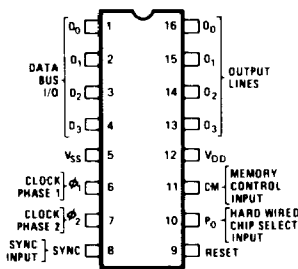
- Four Registers of 20 4 Bit Characters
- Direct Interface to MCS-40™ 4 Bit Bus
- Output Port Low-Power TTL Compatible
- 16 Pin Dual In-Line Package
- Standard Operating Temperature Range of 0° to 70° C
- Also Available With -40° to +85° C Operating Range

The 4002 performs two distinct functions. As a RAM it stores 320 bits arranged in 4 registers of twenty 4 bit characters each (16 main memory characters and 4 status characters). As a vehicle of communication with peripheral devices, it is provided with 4 output lines and associated control logic to perform output operations. The 4002 is a PMOS device and is compatible with all MCS-40™ components.

The 4002 is available in two options, the 4002-1 and 4002-2. Along with an external pin connected to either  $V_{DD}$  or  $V_{SS}$ , a two bit chip selection address is provided allowing a maximum of 1280 bits of 4002 RAM on a single MCS-40 CM-RAM line. Thus, the four CM-RAM lines give a maximum of 5120 bits of 4002 RAM in an MCS-40 system.

MCS-4/40

PIN CONFIGURATION



BLOCK DIAGRAM

