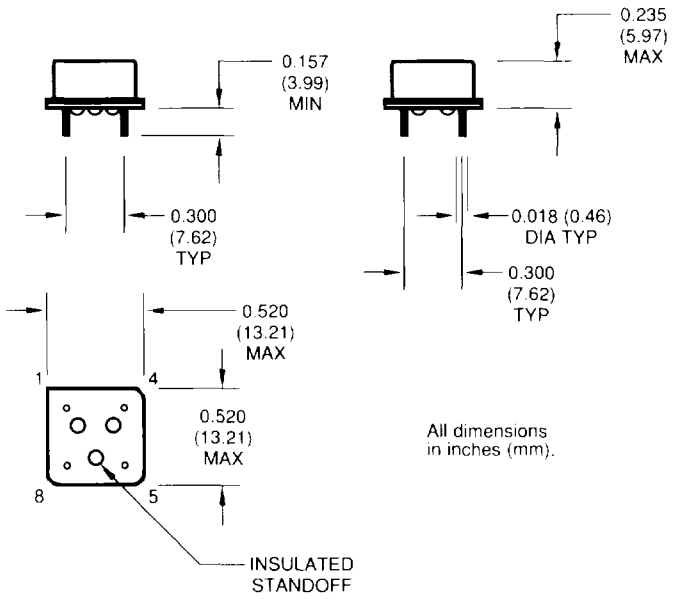
MAH Series Half-Size ACMOS Oscillators

HCMOS and TTL Compatible High Frequency Oscillators



All dimensions in inches (mm).

Part Marking and Numbering MAH 1 3 F A D

Product Series
MAH

Temperature Range
1: 0°C to +70°C 2: −40°C to +85°C
6: −20°C to +70°C 7: 0°C to +85°C

Stability
1: ± 1000 ppm 2: ± 500 ppm
3: ± 100 ppm 4: ± 50 ppm
5: ± 35 ppm 6: ± 25 ppm

Output Type
F: Fixed T: Tristate

Symmetry/Logic Compatibility
A: 40/60 B: 45/55 TTL

Package/Lead Configurations
A: DIP; Gold Flash Header D: DIP; Nickel Header
G: Gull Wing; Nickel Header

Pin Connections

PIN	FUNCTION
1	N/C or Tristate
4	Circuit/Case Ground
5	Output
8	+ V_{dd}

Available Stabilities vs Temperature

T \ S	1	2	3	4	5	6
1	A	A	S	A	A	A
2	A	A	A	A	P	P
6	A	A	A	A	A	P
7	A	A	A	A	P	P

A = AVAILABLE
S = STANDARD
P = PLANNED (consult factory)

Electrical Specifications

(Standard Operating Conditions 0°C to +70°C; V_{dd} = 5.0 ±5% V DC)

	TTL LOAD			HCMOS LOAD			
PARAMETERS	**MIN.**	**TYP.**	**MAX.**	**MIN.**	**TYP.**	**MAX.**	**UNITS**
Frequency Range	80.000		150.000	80.000		150.000	MHz
Output Load ⚠1			5			25 pF	TTL
Symmetry	40/60	45/55	60/40	40/60	45/55	40/60	%
Logic "0" Level			0.5			.1 x V_{dd}	V
Logic "1" Level	2.4 V			.9 x V_{dd}			V
Rise/Fall Time			2			2	ns
Supply Current		70	85		70	95	mA

⚠1 *See load circuit #5 on page 32.*