

PULSE GENERATOR MODULES WITH ENABLE

HY5700

FEATURES

- TTL Schottky buffered inputs and outputs
- Hermetically sealed metal package
- Low profile 14-pin DIP
- Customs also available

SPECIFICATIONS

INPUT TEST CONDITIONS:

SUPPLY VOLTAGE (VCC) 5.0 VDC
PULSE VOLTAGE Logic 1 = 3.2 volts
Logic 0 = 0.0 volts
RISE TIME 3.0 nsec.

DRIVE CAPABILITIES:

LOGIC 0 10 TTL loads (20 mA)
LOGIC 1 20 TTL loads (-2 mA)

OPERATING CHARACTERISTICS:

OUTPUT RISE TIME 4 nsec. max. (measured from 0.75V to 2.4V)
PULSE WIDTH TOLERANCES ± 1.5 ns or 5% whichever is greater
SUPPLY CURRENT 65 mA max.
SUPPLY VOLTAGE 4.75V to 5.25V
LOGIC 1 INPUT CURRENT $20\mu\text{A}$ @ VCC = 5.5V and $V_I = 2.7\text{V}$
LOGIC 0 INPUT CURRENT -0.5mA @ VCC = 5.5V and $V_I = 0.4\text{V}$
LOGIC 1 OUTPUT VOLTAGE 2.7V min.
LOGIC 0 OUTPUT VOLTAGE 0.5V max.
LOGIC 1 INPUT VOLTAGE 2V min. to 5.5V
LOGIC 0 INPUT VOLTAGE 0.8V max.

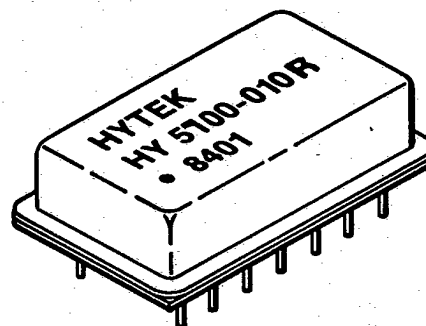
SHORT CIRCUIT OUTPUT CURRENT -30 mA min. to -112 mA max. (1 sec. duration)

OPERATING TEMPERATURE 0°C to 70°C (optional -55°C to +125°C)

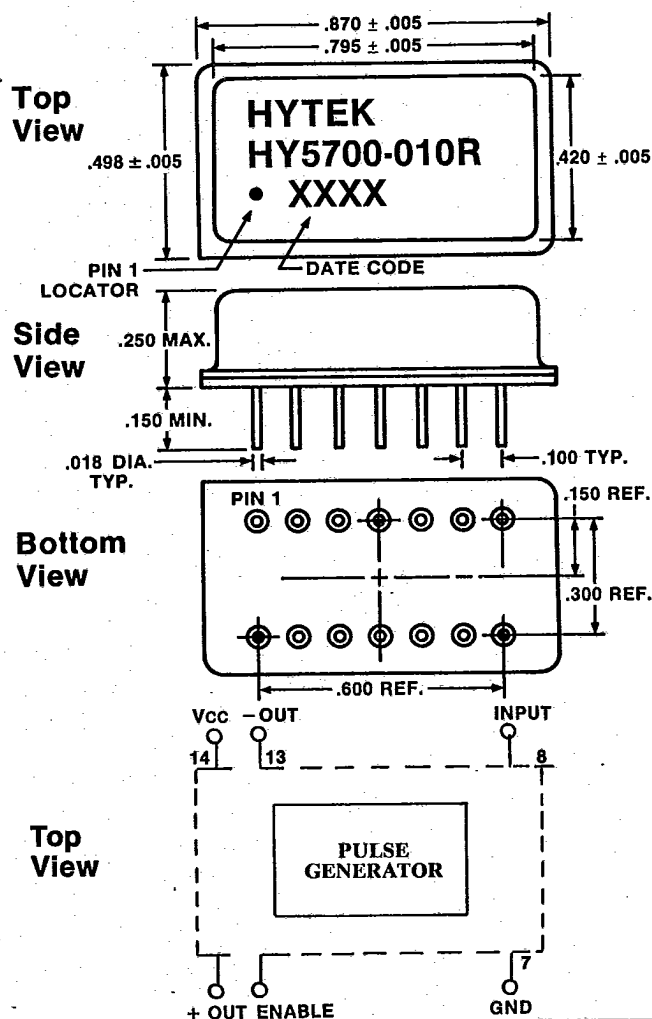
STORAGE TEMPERATURE -55°C to +125°C
HERMETICITY Leak rate $< 1 \times 10^{-6}$ ATM. CC/S

Part No.	Pulse Width (nsec)	Max. Pulse Rate (MHz)
HY5700-005R	5	98
HY5700-010R	10	49
HY5700-015R	15	32
HY5700-020R	20	24
HY5700-025R	25	19
HY5700-030R	30	15

R = standard 0°C to 70°C operation
M = standard -55°C to +125°C operation
Z = 883 screening



Dimensions (Inches)



Specifications subject to change without notice.

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