

# 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  $\pm 1.5$  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 Vi = 2.7V  
 LOGIC 0 INPUT CURRENT -0.5mA @ Vcc = 5.5V and Vi = 0.4V

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.

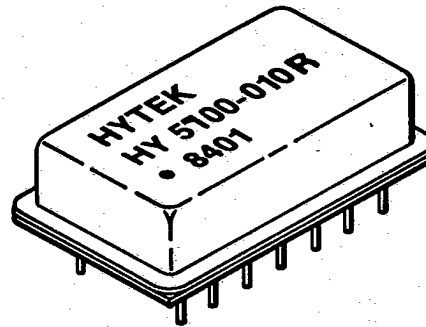
SHORT CIRCUIT OUTPUT CURRENT -30 mA min. to -112 mA max. (1 sec. duration)

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

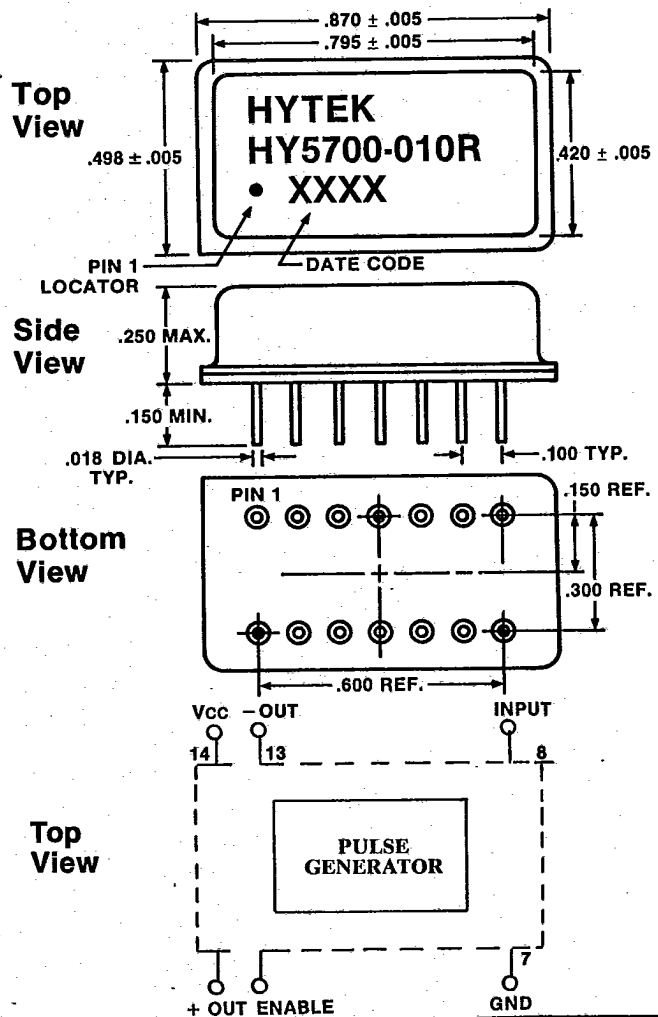
STORAGE TEMPERATURE -55°C to +125°C  
 HERMETICITY Leak rate <  $1 \times 10^{-6}$  ATM. CC/IS

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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