



# IMPULSE GENERATORS

100-2000 MHz

## FEATURES

- Extremely narrow pulse width (typically 30 psec to 100 psec)
- Very high voltage output amplitude (6V to 20V into 50 ohms)
- Various input and output frequencies available
- Input matched to 50 ohms system
- No bias required
- Hermetically sealed module
- Available in drop-in type package



## APPLICATIONS

- Clock reference
- Sampling circuit
- Sharp biasing or triggering source
- Optical modulator driving

## ENVIRONMENTAL RATINGS

Max Input Power..... 1 Watt  
 Operating Temperature Range.....-55°C to + 95°C  
 Storage Temperature Range.....-65°C to +150°C  
 Temperature Cycling.....-65°C to +150°C  
 Shock.....1500 G, 0.5 msec; 50 G, 11 msec  
 Vibration.....20G, 100 to 2000 Hz  
 Acceleration.....10,000 G

## Specifications: (@ +25°C, 0.5 Watt <sup>3</sup> input)

MODEL <sup>1</sup>	INPUT <sup>2</sup> (DRIVING) FREQ. (MHz)	MAX INPUT VSWR	TYPICAL <sup>4</sup> IMPULSE OUTPUT VOLTAGE (V)	TYPICAL <sup>5</sup> IMPULSE PULSE WIDTH (P SEC)	IMPULSE OUTPUT FREQ. (MHz)	OUTLINE
GIM100A*	100	2:1	-12	100	100	C, L
GIM200A*	200	2:1	-18	90	200	C, L
GIM250A*	250	2:1	-18	80	250	C, L
GIM500A*	500	2:1	-15	60	500	C, L
GIM1000A*	1000	2:1	-10	50	1000	C2, L
GIM1500A*	1500	2:1	-8	45	1500	C2, L
GIM2000A*	2000	2:1	-7	35	2000	C2, L

Notes: 1. Suffix (\*) for designations of the desired outline package, either C, C2 or L.  
 2. Other driving (input) frequencies from 10 MHz to 10 GHz are available. Consult factory for the desired frequency.  
 3. If input power other than 0.5 Watt (typically +10 dBm or 0 dBm) is desired, consult factory for information.  
 4. Impulse output voltage into 50-ohm system, standard output polarity is negative; positive polarity is available. Consult factory for information.  
 5. Pulse width is measured at 50% of the impulse peak voltage.  
 6. Add "X" to final suffix for an enhanced assembly version for more severe vibration environment.

For Package Outlines see Outline Drawings Page