HBH Microwave GmbH



HT1001/SMD

General Description

HT0001/SMD is a TTL-controlled 5-BIT attenuator in a low cost SMA package. Covering 1 MHz to 1000 MHz, the typical insertion loss is less than 2.0 dB. The attenuator offers a total attenuation range of 31 dB with 1 dB step size. The attenuator operates with a single voltage of -5V.

The attenuation steps are controlled by TTL signals.

The device operates from –40°C to +85°C.

Electrical Performance

Typical Data @25 °C

Parameter	Min	Typ	Max	Units
Frequency Range	1		1000	MHz
Insertion Loss		2.0	2.5	dB
Attenuation Range		31		dB
Attenuation Steps		1		dB
Return Loss "All Attenuation States"	10	13		dB
Return Loss "Off State"	9	12		dB
Input $P_{0.1dB}$		22		dBm
Switching 10/90% RF		300		ns
Temperature Range	-40		+85	°C
DC Voltage		-5.0 ± 10%		V
Control Voltages		0/5		V
Package	tbd			
Size	28 x 28 x 6			mm

Rev. 1.0