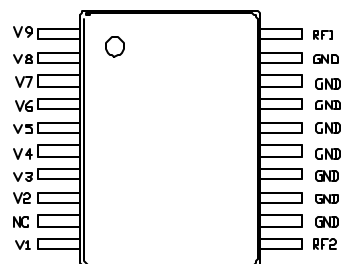


GaAs Digital Attenuator, 5 Bit, 1, 2, 4, 8, 16 dB DC - 2.0 GHz ITTA504AE

ADVANCED INFORMATION

FEATURES

- 31dB Attenuation Range in 1.0 dB steps
- Packaged in a SS020 package



Description

The ITTA504AE is a GaAs FET Digital Attenuator consisting of 5 monolithic attenuators of 1, 2, 4, and 8, 16 dB providing a maximum attenuation of 31dB in 1 dB steps.

APPLICATIONS INCLUDE CELLULAR, RADIO, WIRELESS LANS AND OTHER WIRELESS APPLICATIONS.

Maximum Ratings (T_A = 25 °C unless otherwise noted)

Rating	Symbol	Value	Unit
RF input power	J _{1,2,3}		
Control Voltage	V _{1,2}		
Junction Temperature	T _J	+150	°C
Storage Temperature	T _{STG}	-40 to +150	°C

ELECTRICAL SPECIFICATIONS AT 25 DEGREES C

Parameter	Frequency	Min.	Typ.	Max.	Unit
Insertion Loss	DC-0.5 GHz		2.0		dB
	DC-1.0 GHz		2.0		dB
	DC-2.0 GHz		2.4		dB
Attenuation Accuracy Per Bit	DC-0.5 GHz	(0.2dB + 3% of Atten. Setting in dB) (0.3dB + 3% of Atten. Setting in dB)			
	DC-1.0 GHz				
	DC-2.0 GHz				
VSWR	DC-0.5 GHz		1.3:1		
	DC-1.0 GHz		1.5:1		
	DC-2.0GHz		1.7:1		

OPERATING CHARACTERISTICS AT 25 DEGREES C

Parameter	Condition	Freq. (GHz)	Min.	Typ.	Max.	Unit
Switching Characteristics	Rise, Fall (10/90% or 90/10% RF)			15		nS
	On, Off (50% CTL to 90/10% RF)			20		nS
	Video Feedthru			30		mV
Input Power for 1 dB Compression		0.50-2.5.0		+25		dBm
		0.05		+19		dBm
Control Voltages	V _{low}			-5.0		Volts
	V _{High}			0.0		Volts

