

Features

- Frequency Range: 30~500MHz
- Thin film construction
- Hermetic package DIP-16
- Operating temperature range : -55°C ~ +85°C

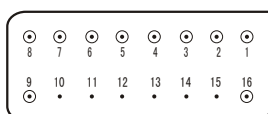
Specifications (measured in a 50 Ω system, V_{cc}=+5V, T_A=-55°C ~ +85°C)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	$f_L \sim f_H$	MHz	30~500	30~500
Insertion loss	I. L	dB	6.0	5.0
Attenuation	A _{tt}	dB	31.75 ± 0.5	31.75 ± 0.2
Attenuation step	—	dB	0.25, 0.5, 1, 2, 4, 8, 16	0.25, 0.5, 1, 2, 4, 8, 16
Attenuation Accuracy	—	dB	±0.15(0.25, 0.5, 1, 2) ±0.3(4, 8, 16,)	±0.1 ±0.2
VSWR	VSWR	—	2.0 : 1	1.3 : 1
Control voltage	V _{co}	—	TTL	—
Switching speed T _{on}	t	us	3.0	2.0
DC Current	I _{cc}	mA	20	15

“Δ” Measured at T_c=24 ± 1°C

Absolute Maximum Ratings

DC Supply: +6V_{DC}
 Input Power: +20dBm
 Storage Temp: +125°C

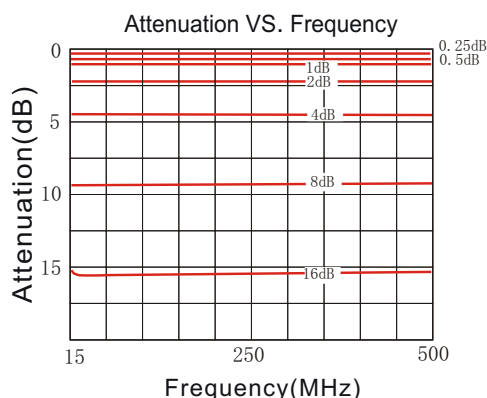
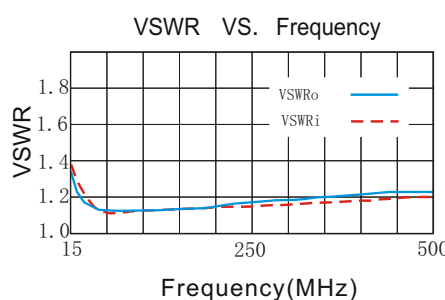
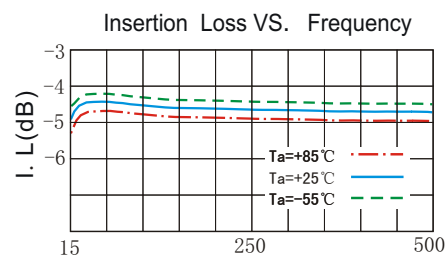


DIP-16

Application Notes

1. Specified frequency range, attenuation packages are available
2. Interexchangeable input and output ports
3. Logic 0: Insertion Loss ; Logic 1: Attenuation
4. Minimum attenuation step 0.5dB and 6 bits digital attenuator is available
5. ESD observe handling precautions
6. Please add power first when use, make sure control port contact with low level

Typical Performance



PIN Connection

PIN	Function	PIN	Function
8	0.5dB	1	8dB
7	1dB	9	RFi
6	2dB	16	RFo
5	4dB	10-15	GND
3	0.25dB	4	V _{cc}
2	16dB		

