

**Features**

- Low insertion loss, High isolation
- Perfect phase/amplitude balance
- Low VSWR
- 50 Ω impedance
- HD-28C, DIP-15 packages available
- Operating temperature range: -55°C ~ +85°C

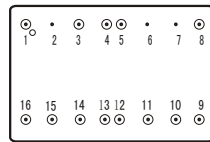
**Specifications** (measured in a 50 Ω system TA=-55°C ~ +85°C)

Parameter	Symbol	Unit	Guaranteed	Typical	
Frequency Range	f <sub>L</sub> ~ f <sub>H</sub>	MHz	10 ~ 500	10 ~ 200	10 ~ 600
Insertion loss	I.L	dB	1.6(Max)	0.6	0.8
Isolation	Iso	dB	20(Min) Δ	25	23
Phase Balance	ΔP	deg	5° (Max) Δ	1°	2°
Amplitude Balance	ΔM	dB	0.8(Max)	0.2	0.3
VSWR	VSWR	----	1.5:1(Max)	1.2:1	1.3:1

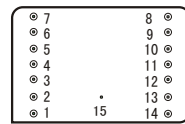
“ Δ ” Measured at Tc=24 ± 1°C

**Absolute Maximum Ratings**

Input Power : 1W  
Storage Temp: +125°C



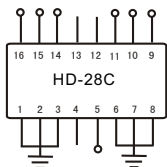
HD-28C



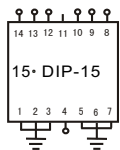
DIP-15

**Application Notes**

1. Input/output pins should be connected to 50 Ω microstrip.
2. Functional schematic shown as following



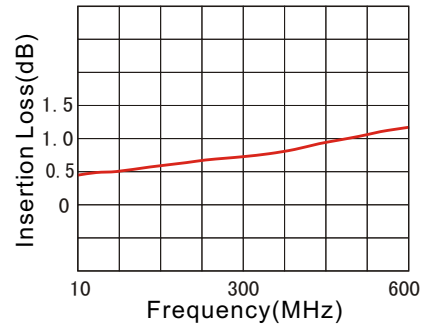
PIN5: Input  
PIN9,10,11,14,15,16: Output  
PIN1,2,3,6,7,8,12,13: GND  
PIN4: N/C



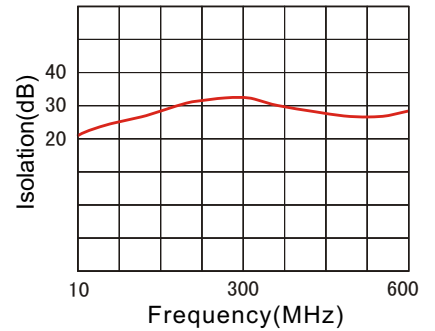
PIN4: Input  
PIN8,9,10,12,13,14: Output  
PIN1,2,3,5,6,7,15: GND  
PIN11: N/C

**Typical Performance**

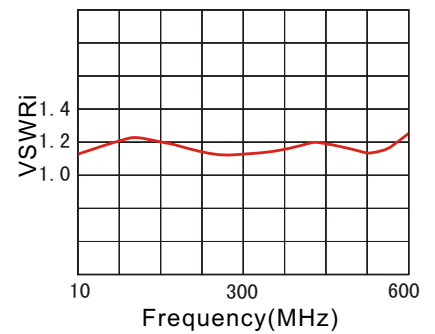
Insertion Loss vs. Frequency



Isolation vs. Frequency



VSWRi vs. Frequency



VSWRo vs. Frequency

