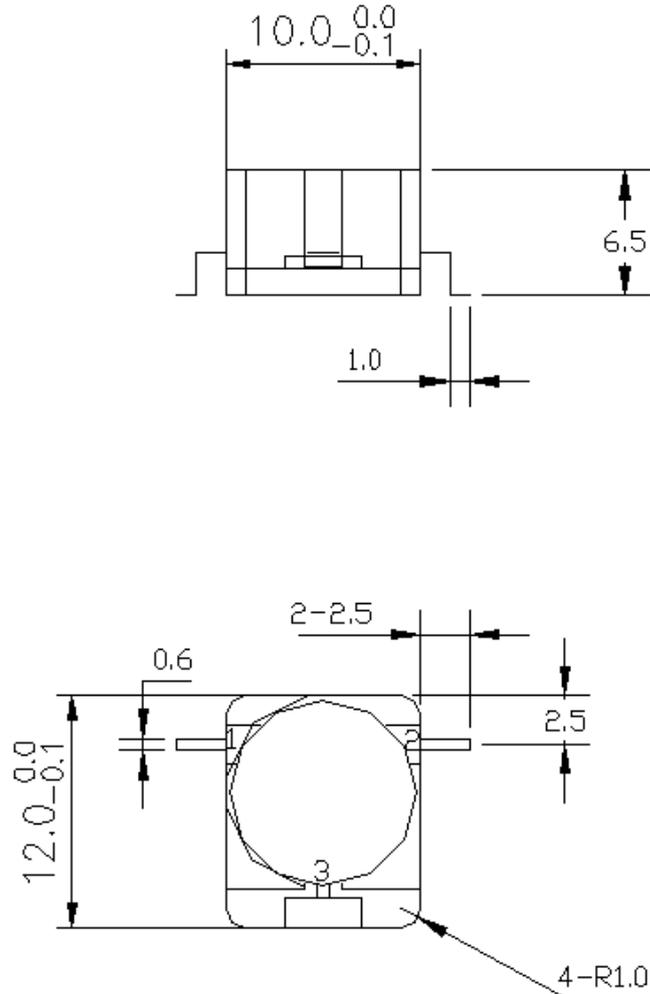


**Features**

- Microwave Circulators and Isolators for base station
- Metal Package for **Surface Mounted Technology (SMT)**
- Lead-free Production and **RoHS** Compliance

**Package Dimensions**



<p style="text-align: center;"><b>Marking</b></p> <p style="text-align: center;">****</p> <p style="text-align: center;">  → ○</p> <p style="text-align: center;"><b>1800-2200MHz</b></p> <p style="text-align: center;"><b>NDI9009</b></p>	Top View, Laser Marking							
	"ND":	Manufacturer's mark				"I":	Isolator	
	"9009":	Part number				". . .":	Terminal 1	
	"I"	IN	"O"	OUT	"L"	LOAD	→	Conduct Direction
		1800-2200MHz : operating Frequency Range						
	"*":	Lot number (the first two numbers of years and the last two numbers of weeks)						

**Maximum Ratings**

Rating		Value	Unit
Average Power	$P_{AVG}$	30	W
Peak Power	$P_{PX}$	150	W
Reverse Power	$P$	10	W
Operating Temperature Range	$T_A$	-40 ~ +85	°C
Storage Temperature Range	$T_{stg}$	-55 ~ +150	°C

**Electrical Characteristics**

Reference temperature:  $T_A = 25\text{ °C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$   
 Terminating load impedance:  $Z_L = 50\ \Omega$

Characteristic		Min.	Typ.	Max.	Unit
Working frequency	$f_C$	1800		2200	MHz
Insertion attenuation	$IL$	—		0.7	dB
Isolation	2110~2170MHz	17		—	dB
Input Return Loss		17			
Output Return Loss		17			

 **RoHS Compliant**

 **Electrostatic Sensitive Device**

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Our liability is only assumed for the circulator and isolator component(s) per se, not for applications, processes and circuits implemented within components or assemblies.

For questions on technology, prices and delivery, please contact our sales offices or e-mail [winnsky@winnsky.com](mailto:winnsky@winnsky.com).