

Technical Characteristics

Mounting Configuration Options	HR-CT0404ALN1WB1	HR-CT0404ALN2WB1
Electrical		
Nominal Impedance	50 ohms \pm 10%	
Frequency Range	DC-42.5 GHz	DC-64 GHz
Input Power CW	5 Watts	1 Watt
Peak Power	10X CW power based on 1 μ S pulse width @ 1% Duty Cycle	
VSWR	1.25:1 Typical Note: When properly matched in a 50 ohm system using Smiths Interconnect's Suggested Mounting Guidelines.	
Environmental		
Operating Temperature	-55°C to +150°C	
Storage Temperature	-65°C to +150°C	
Temperature Coefficient	\pm 200 PPM/°C Max	
Moisture Sensitivity Level	MSL 1 - Unlimited	
Mechanical		
Substrate Material	Aluminum Nitride	
Resistive Film	Thin Film, Tantalum Nitride	
Terminal Material	Thin Film, Gold over Nickel	
Ground Plane	Thin Film, Solderable Silver over Platinum	
Protective Coating	Silicon Nitride	
Marking		
Unit Marking	None	
Quality Assurance		
	Sample visual and mechanical inspection - 1.0 AQL per mechanical drawing requirements. Periodic electrical inspection performed for commercial grade products. High reliability tested products are available per MIL-PRF-55342.	
Packaging		
Standard Packaging	Tape and Reel or Waffle Pack	