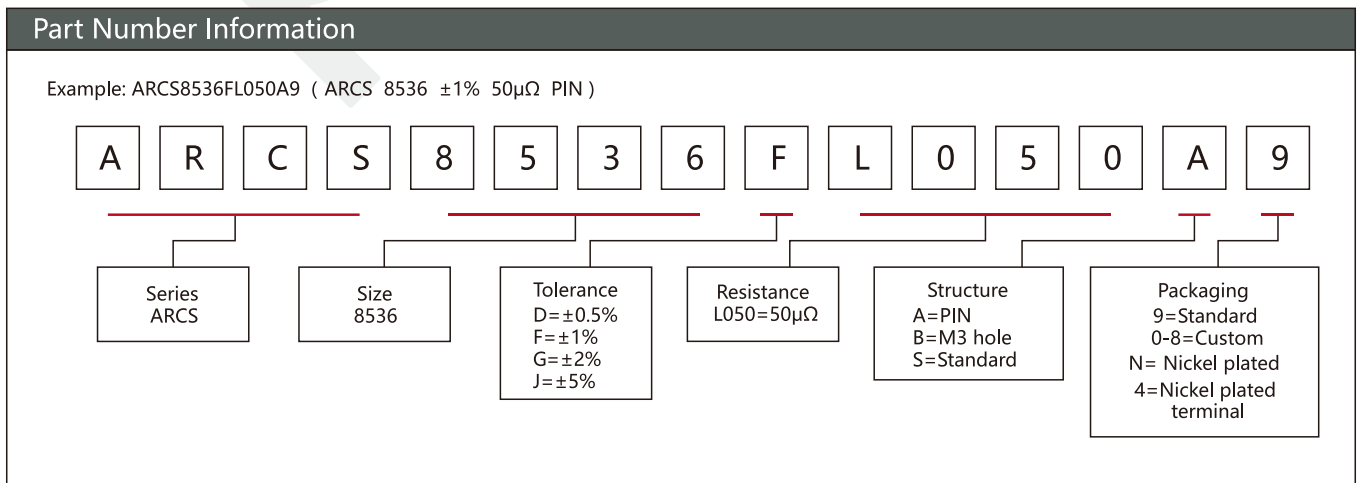
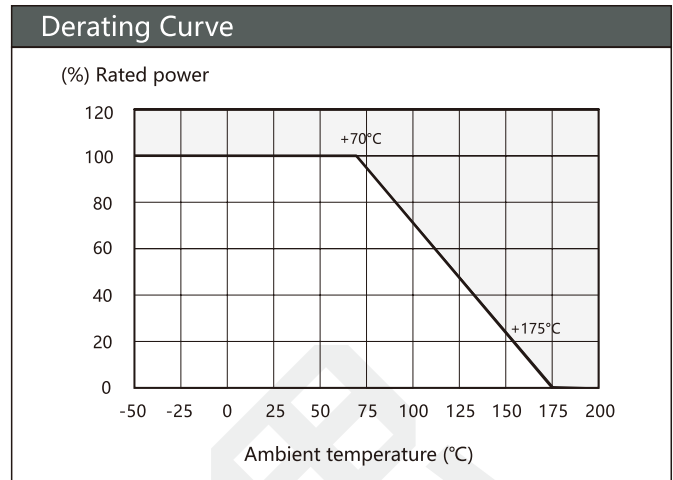
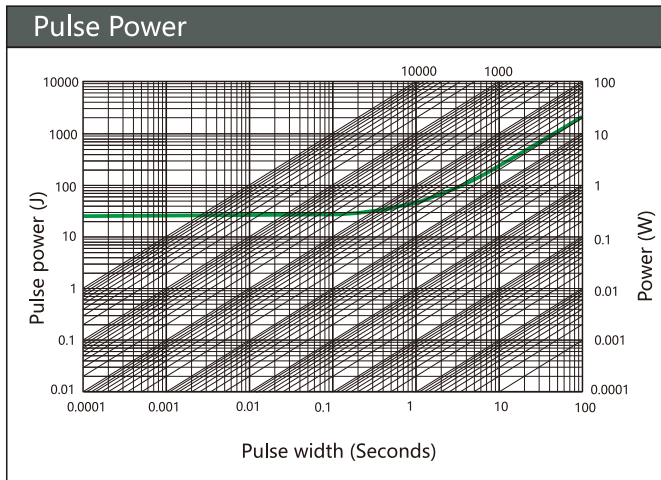


Specifications									
Model	Tolerance	Resistance	TCR (+20°C Ref)	Rated Current	Current Coefficient*	Rated Power	Inductance	Structure	Weight
ARCS8536DL050A9	±0.5%	50μΩ	100ppm/°C (+20°C~+175°C) 150ppm/°C (-55°C~+20°C)	1000A	<10ppm/A	50W	<3nH (20KHz)	PIN	80g
ARCS8536FL050A9	±1%								
ARCS8536GL050A9	±2%								
ARCS8536JL050A9	±5%								
ARCS8536DL050B9	±0.5%		100ppm/°C (+20°C~+175°C) 150ppm/°C (-55°C~+20°C)					M3	
ARCS8536FL050B9	±1%								
ARCS8536GL050B9	±2%								
ARCS8536JL050B9	±5%								
ARCS8536DL050S9	±0.5%		50ppm/°C (20°C~+175°C) 100ppm/°C (-55°C~+20°C)					Standard	
ARCS8536FL050S9	±1%								
ARCS8536GL050S9	±2%								
ARCS8536JL050S9	±5%								
ARCS8536DL050SN	±0.5%		100ppm/°C (+20°C~+175°C) 150ppm/°C (-55°C~+20°C)					Standard Nickel plated*	
ARCS8536FL050SN	±1%								
ARCS8536GL050SN	±2%								
ARCS8536JL050SN	±5%								
ARCS8536DL050S4	±0.5%	100ppm/°C (+20°C~+175°C) 150ppm/°C (-55°C~+20°C)	Nickel plated terminal*						
ARCS8536FL050S4	±1%								
ARCS8536GL050S4	±2%								
ARCS8536JL050S4	±5%								

* $(R_1 - R_2) / [(I_1 - I_2) \cdot R_0]$ (R₁: 2/3 times rated current, 10 min; R₂: 1/10 times rated current, 10 min; R₀: Initial resistance; I₁: 2/3 times rated current; I₂: 1/10 times rated current.)
 *Full nickel plating is the whole nickel plating, including the resistive alloy part, can completely prevent resistive alloy part from the oxidation, but the TCR performance is slightly reduced; half nickel plating type is partial nickel plating, the resistive alloy part is not nickel plated but only the copper terminal.

Performance		
Test	Test method	Test limits
Thermal Shock	-55°C/+155°C, 1000 cycles, 15 minutes each	ΔR ≤ ±0.5%
Short-Time Overload	5 times rated power, 5 seconds	ΔR ≤ ±0.5%
Low Temp. Storage	-55 °C for 24 hours	ΔR ≤ ±0.5%
High Temp. Exposure	170 °C for 1000 hours	ΔR ≤ ±1.0%
Humidity Resistance	+85 °C, 85% RH 0.1 times rated power, 1000 hours	ΔR ≤ ±0.5%
Moisture Resistance	100G 6mS, 5 times	ΔR ≤ ±0.5%
Vibration	Frequency varied 10Hz to 2000Hz in 1 minute, X-Y-Z direction, 12 hours	ΔR ≤ ±0.5%
Load Life Stability	Rated power, 70 °C, 1.5 hours on, 0.5 hours off, 1000 hours	ΔR ≤ ±1.0%





Safe storage

- (1) The shunt should be stored at a temperature of 5 to 35 °C, humidity <60% RH, and the humidity should be kept as low as possible.
- (2) The shunt should be protected from direct sunlight.
- (3) The shunt should be stored in a clean, dry and free of harmful gases environment (hydrogen chloride, sulfuric acid, hydrogen sulfide).
- (4) Wear gloves for installation and storage, to reduce the risk of surface oxidation.
- (5) The shunt can be stored for at least 1 year in original package by following above instructions.

Installation suggestions

The recommended installation torque for the M3 threaded hole is 0.4~0.8 N.m.

Packaging

- (1) 15 pcs./PVC tray, with the pin facing downwards.
- (2) Pack every 4 trays into a bundle (60pcs).
- (3) Place each bundle into an aluminum-foil vacuum bag and vacuum seal it.
- (4) A pair of PE gloves and a pair of cotton work gloves in each bag.
- (5) Product unit weight: 70±5g. Box net weight: 2.1kg. Box gross weight: 3.0kg.
- (6) Outer box size: 370×290×85mm.

