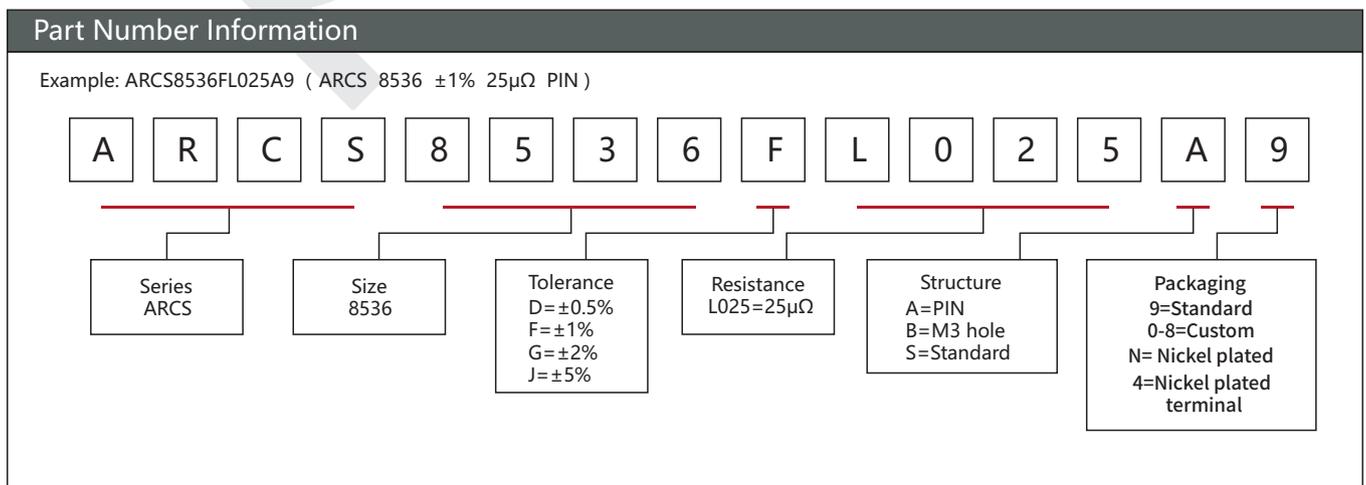


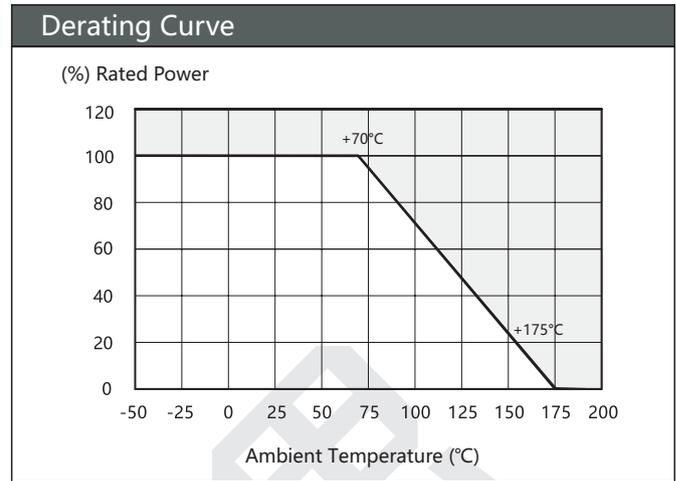


| Specifications  |           |            |   |               |                      |             |                 |                            |        |
|-----------------|-----------|------------|---|---------------|----------------------|-------------|-----------------|----------------------------|--------|
| Model           | Tolerance | Resistance | TCR (+20°C Ref)   | Rated Current | Current Coefficient* | Rated Power | Inductance      | Structure                  | Weight |
| ARCS8536DL025A9 | ±0.5%     | 25μΩ       | ±150ppm/°C<br>(+20°C~+175°C)<br>±200ppm/°C<br>(-55°C~+20°C) | 1410A         | <10ppm/A             | 50W         | <3nH<br>(20KHz) | PIN                        | 80g    |
| ARCS8536FL025A9 | ±1%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536GL025A9 | ±2%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536JL025A9 | ±5%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536DL025B9 | ±0.5%     |            | ±150ppm/°C<br>(+20°C~+175°C)<br>±200ppm/°C<br>(-55°C~+20°C) |               |                      |             |                 | M3                         |        |
| ARCS8536FL025B9 | ±1%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536GL025B9 | ±2%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536JL025B9 | ±5%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536DL025S9 | ±0.5%     |            | ±100ppm/°C<br>(+20°C~+175°C)<br>±150ppm/°C<br>(-55°C~+20°C) |               |                      |             |                 | Standard                   |        |
| ARCS8536FL025S9 | ±1%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536GL025S9 | ±2%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536JL025S9 | ±5%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536DL025SN | ±0.5%     |            | ±150ppm/°C<br>(+20°C~+175°C)<br>±200ppm/°C<br>(-55°C~+20°C) |               |                      |             |                 | Standard<br>Nickel plated* |        |
| ARCS8536FL025SN | ±1%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536GL025SN | ±2%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536JL025SN | ±5%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536DL025S4 | ±0.5%     |            | ±100ppm/°C<br>(+20°C~+175°C)<br>±150ppm/°C<br>(-55°C~+20°C) |               |                      |             |                 | Nickel plated<br>terminal* |        |
| ARCS8536FL025S4 | ±1%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536GL025S4 | ±2%       |            |   |               |                      |             |                 |                            |        |
| ARCS8536JL025S4 | ±5%       |            |   |               |                      |             |                 |                            |        |

\*( $R_1 - R_2$ ) / [( $I_1 - I_2$ ) \*  $R_0$ ] ( $R_1$ : 2/3 times rated current, 10 min;  $R_2$ : 1/10 times rated current, 10 min;  $R_0$ : Initial resistance;  $I_1$ : 2/3 times rated current;  $I_2$ : 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.

