



Resistance from 0.05Ohm  
to 5MOhms  
Power Rating to 50  
Resistance Tolerance to ±1%  
TCR to ±50ppm/K  
TO-220 Housing

**SPECIFICATION**

Type	ES-25	ES-50
Substrate	<b>Al<sub>2</sub>O<sub>3</sub></b>	<b>ALN</b>
Resistance range	0.05Ohm to 5MOhms	0.05Ohm to 100Ohms
Tolerance from 0.05 Ohms from 0.1 Ohms	2% / 5% / 10% 1% / 2% / 5% / 10%	
Stability	1%	
Temperature Coefficient	±100 ppm/K(Typycal 50ppm/K)	
Power rating with heatsink	25 W	50 W
Thermal Resistance Rthj-c	5 °C/W	2.5 °C/W
Inductivity	< 10nH	
Capacity	< 35 pF	
Operating Temperature Range	- 55 to 155 °C	
Resistance Material	Thick Film	
Housing	Epoxy or Plastic	
Connector Material	Cu Gold plated	
Voltage proof	250V( < 5KΩ),500V( > 5KΩ)	