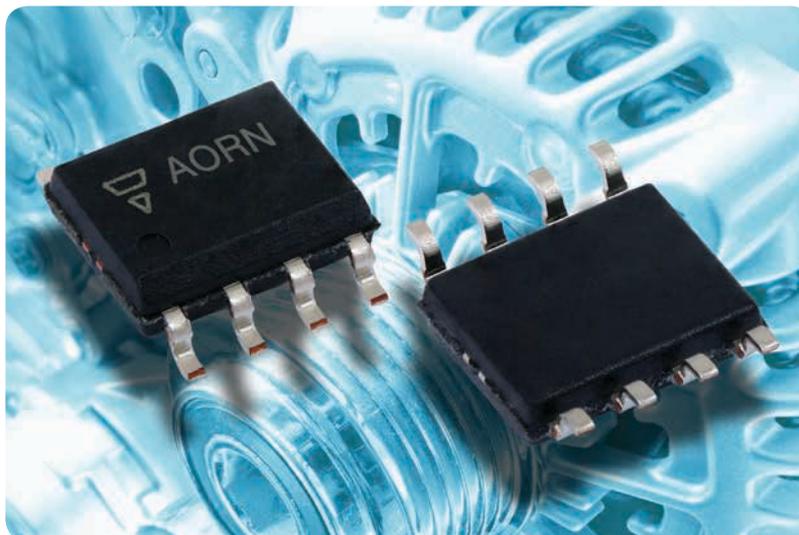




THIN FILM RESISTOR NETWORKS

AORN

Molded, 50 mil Pitch, Dual-In-Line Thin Film Resistor Networks, Precision Automotive, AEC-Q200 Qualified



KEY BENEFITS

- AEC-Q200 qualified
- Moisture resistant tantalum nitride resistor film
- Resistance range 1 k Ω to 100 k Ω
- Excellent long term ratio stability: 0.015 % ratio after 1000 h at 155 °C
- Ratio tolerances to ± 0.05 %
- Low TCR tracking ± 5 ppm
- Very low noise and voltage coefficient

APPLICATIONS

- Automotive
- Telecommunications
- Industrial applications
- Process control
- Medical instrument

RESOURCES

- Datasheet: AORN - www.vishay.com/doc?60127
- For technical questions contact thinfilm@vishay.com



RoHS
COMPLIANT

HALOGEN
FREE

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components

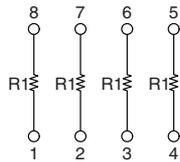
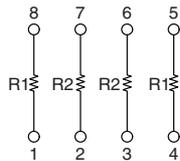


Molded, 50 mil Pitch, Dual-In-Line Thin Film Resistor Networks, Precision Automotive, AEC-Q200 Qualified



The AORN series features a narrow body (0.150") small outline SMT package. The network is constructed with a tantalum nitride resistor film on a high purity alumina substrate for improved ESD and moisture protection.

SCHEMATICS



Note

- Consult Factory for additional divider ratios and resistance values.

FEATURES

- Moisture resistant tantalum nitride resistive film (MIL STD 202, method 106)
- Standard 8 pin count (0.150" narrow body) JEDEC MS-012
- Rugged molded case construction
- Excellent long term ratio stability ($\Delta R \pm 0.015\%$)
- Low TCR tracking ± 5 ppm/ $^{\circ}\text{C}$
- Passes Sulfur Resistance Test per ASTM B 809
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Note

* This datasheet provides information about parts that are RoHS-compliant and / or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details.

TYPICAL APPLICATIONS

- Voltage divider circuits
- Engine control units
- Signal conditioning
- Feedback circuits

TYPICAL PERFORMANCE

	ABSOLUTE	TRACKING
TCR	25	5
	ABSOLUTE	RATIO
TOL.	0.10	0.05

STANDARD DIVIDER VALUES

RATIO R_1/R_2	R_1	R_2
100:1	100 k Ω	1 k Ω
50:1	50 k Ω	1 k Ω
25:1	25 k Ω	1 k Ω
20:1	20 k Ω	1 k Ω
10:1	10 k Ω	1 k Ω
5:1	10 k Ω	2 k Ω
2:1	10 k Ω	5 k Ω
1:1	100 k Ω	
	100 k Ω	
	49.9 k Ω	
	24.9 k Ω	
	20.0 k Ω	
	10.0 k Ω	
	4.99 k Ω	
	2.0 k Ω	
1.0 k Ω		

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