RESISTOR ARRAYS
WHEREVER A STABLE RESISTANCE RATIO IS REQUIRED

EQUIVALENT AGING DRIFT
Divider Ratio Stability: Aging Over Lifetime

THERMAL COUPLING

TOLERANCE

Absolute Tolerance

Relative Tolerance
(Matching)

RESISTANCE CHANGE

+0.1 %

0

-0.1 %

20 000 h

P = P

70

P = 0

P = P

70

P = 0

Thermal Coupling

IN A NUTSHELL

TEMPERATURE COEFFICIENT

Absolute TCR

Relative TCR (Tracking)

Possible TCR Behavior

Relative TCR:
± 5 ppm/K

Absolute TCR:
± 25 ppm/K

APPLICATIONS

VOLTAGE DIVIDER

FEEDBACK LOOP

AUTOMOTIVE

DC/DC CONVERTERS

MEASUREMENT EQUIPMENT

APPLICATIONS

VOLTAGE DIVIDER

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MEASUREMENT EQUIPMENT

EQUIVALENT AGING DRIFT
Divider Ratio Stability: Aging Over Lifetime

0.1 %

0.02 %

Divisor Error Over Lifetime

Time

20 000 h

Discrete Thin Film Chip Resistors

Thin Film Array Elements on Same Chip

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