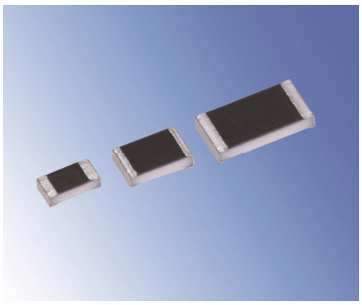
25ppm, 0.1%, ESD Tolerant High Precision Resistors

NEW

RS73 Series



KOA's new RS73-series are ESD transient tolerant high precision and high reliability resistors using thick film technology.

With a T.C.R. down to ±25ppm and a tolerance as low as ±0.1%, the new RS73-series from KOA is ideal for precision designs such as high-accuracy sensing or voltage detection circuits in automotive, industrial and measuring applications, where ESD sensitivity is an issue.

The new RS73-series also features an **excellent long term stability.**

The RS73-series is available in 0603, 0805 and 1206 inch.

Features

- ±0.1%, ±0.25%, ±0.5% and ±1% tolerances available
- ±25ppm/K, ±50ppm/K
- ±0.2% ~ Long term stability
- ESD stability of thick film resistors
- Ideal for applications where thin film is not suitable
- Anti-Sulfuration type also available (RS73-RT)
- EU-RoHS compliant, AEC-Q200 qualified

Application Examples

- High precision circuits for automotive and industrial
- Motor controls
- AC adapters
- A/D signal conversion
- Switching boards
- Industrial equipment & measurement

Ratings

Type	Size (inch)	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (ppm/K)	Resistance Range (E24 & E96)*2				Max. Working Voltage	Max. Overload Voltage
						B: ± 0.1%	C: ± 0.25%	D: ± 0.5%	F: ± 1%		
RS73F1J	0603	0.2 W	+85 °C	+125 °C	±25*1	100 Ω ~ 1 MΩ				100 V	150 V
RS73G1J					±50						
RS73F2A	0805	0.25 W			±25*1	10 Ω ~ 1 MΩ		10 Ω ~ 10 MΩ		150 V	300 V
RS73G2A					±50						
RS73F2B	1206	0.33 W			±25*1					200 V	400 V
RS73G2B					±50						

NEW

*1 Cold T.C.R. (-55℃/+25℃) is -50 ~ +25 ppm/K

Operating Temperature Range: -55 ℃ … +155 ℃

*2 Please contact KOA in case E192 values are needed

Performance

Parameter	Test method	Limit ⊿R	Typical ⊿R
Short Time Overload	Rated voltage x 2.5 for 5sec (Not exceeding max. overload voltage)	±0.2 %	±0.03 %
Resistance to soldering heat	+260°C ± 5°C, 10sec ± 1sec		±0.1 %
Rapid change of temperature	-55°C(30min.) / +125°C(30min.), 1000cycles		±0.05 %
High Temperature exposure	+155°C ± 3°C, 1000hrs	±0.2 %: 1J (100Ω≤R≤200kΩ) 2A,2B (10Ω≤R≤100kΩ) ±0.4~0.5 %: others	±0.1 %: 1J (100Ω≤R≤200kΩ) 2A,2B (10Ω≤R≤100kΩ) ±0.2~0.3 %: others
Moisture resistance	+40°C ± 2°, 90~95%RH, 1000hrs 1.5h ON / 0.5h OFF cycle	±0.2 %: 1J (100Ω≤R≤ 200kΩ) 2A,2B (10Ω≤R≤10MΩ) ±0.4 %: others	±0.04 %: 1J (100Ω≤R≤200kΩ) 2A,2B (10Ω≤R≤10MΩ) ±0.08 %: others
Rated load / Endurance	+85°C ± 2°, 1000hrs, 1.5h ON/0.5h OFF cycle	±0.2 %	±0.05 %

For more information, please contact:
KOA Europe GmbH, Kaddenbusch 6, D-25578 Dägeling-Itzehoe, Germany
Phone: +49 (0)4821 89890, E-Mail: info@koaeurope.de, Internet: www.koaeurope.de
Our privacy policy in its newest form is available at https://koaeurope.de/privacy-policy/

02. May 2019