

Standard Metal Film Leaded Resistors



A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting leads of electrolytic copper are welded to the end-caps.

The resistors are coated with a colored lacquer (light-blue for type SFR16S; light-green for type SFR25 and red-brown for type SFR25H) which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with IEC 60068-2-45.

FEATURES

- Low cost
- Low noise (max. 1.5 $\mu\text{V/V}$ for $R > 1 \text{ M}\Omega$)
- Small size (SFR16S: 0204, SFR25/25H: 0207)
- Lead (Pb)-free solder contacts
- Pure tin plating provides compatibility with lead (Pb)-free and lead containing soldering processes
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


**RoHS
COMPLIANT**

APPLICATIONS

- General purpose resistors

| TECHNICAL SPECIFICATIONS | | | | |
|--|-----------------|--|--|---|
| DESCRIPTION | UNIT | SFR16S | SFR25 | SFR25H |
| Resistance Range | Ω | $\pm 5 \%$; 1 to 3M $\pm 1 \%$; 4.99 to 3M Jumper (0 Ω) | $\pm 5 \%$; 0.22 to 10M $\pm 1 \%$; 1 to 10M Jumper (0 Ω) | |
| Resistance Tolerance | % | ± 1 , E24/E96 series; ± 5 , E24 series | | |
| Temperature Coefficient: $R \leq 4.7 \Omega$ $4.7 \Omega < R \leq 100 \text{ k}\Omega$ $100 \text{ k}\Omega < R \leq 1 \text{ M}\Omega$ $R > 1 \text{ M}\Omega$ | ppm/K | $\leq \pm 250$ $\leq \pm 100$ $\leq \pm 250$ $\leq \pm 250$ | $\leq \pm 100$ $\leq \pm 100$ $\leq \pm 100$ $\leq \pm 250$ | $\leq \pm 100$ $\leq \pm 100$ $\leq \pm 100$ $\leq \pm 250$ |
| Rated Dissipation, P_{70} | W | 0.5 | 0.4 | 0.5 |
| Thermal Resistance, R_{th} | K/W | 170 | 200 | 150 |
| Maximum Permissible Voltage, (U_{max} . AC/DC) | V | 200 | 250 | 350 |
| Noise: $R < 68 \text{ k}\Omega$ $68 \text{ k}\Omega \leq R \leq 100 \text{ k}\Omega$ $100 \text{ k}\Omega \leq R \leq 1 \text{ M}\Omega$ $R > 1 \text{ M}\Omega$ | $\mu\text{V/V}$ | max. 0.1 max. 0.5 max. 1.5 max. 1.5 | max. 0.1 max. 0.1 max. 0.1 max. 1.5 | max. 0.1 max. 0.1 max. 0.1 max. 1.5 |
| Basic Specifications | | IEC 60115-1 | | |
| Climatic Category (IEC 60068-1) | | 55/155/56 | | |
| Stability, ΔR max., after: Load (1000 h, P_{70}): R Range Long Term Damp Heat Test (56 Days): $R \leq 1 \text{ M}\Omega$ $R > 1 \text{ M}\Omega$ | | $\pm (2 \% R + 0.05 \Omega)$ $\pm (1 \% R + 0.05 \Omega)$ $\pm (1 \% R + 0.05 \Omega)$ | $\pm (2 \% R + 0.05 \Omega)$ $\pm (1 \% R + 0.05 \Omega)$ $\pm (1 \% R + 0.05 \Omega)$ | $\pm (2 \% R + 0.05 \Omega)$ $\pm (1 \% R + 0.05 \Omega)$ $\pm (2 \% R + 0.1 \Omega)$ |
| Soldering (10 s, 260 °C) | | $\pm (0.25 \% R + 0.05 \Omega)$ | $\pm (0.25 \% R + 0.05 \Omega)$ | $\pm (0.25 \% R + 0.05 \Omega)$ |
| Short Time Overload | | $\pm (0.25 \% R + 0.05 \Omega)$ | $\pm (0.25 \% R + 0.05 \Omega)$ | $\pm (1 \% R + 0.05 \Omega)$ |

Note

- R value is measured with probe distance of 24 mm \pm 1 mm using 4-terminal method

| PART NUMBER AND PRODUCT DESCRIPTION | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|--|---|---|--------------------------------------|--------------------------|---|---|---|---|---|---|---|---|---|---|---|
| PART NUMBER: SFR2500001001FA500 | | | | | | | | | | | | | | | | | |
| S | F | R | 2 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | F | A | 5 | 0 | 0 |
| MODEL/SIZE | VARIANT | TCR/MATERIAL | VALUE | | TOLERANCE | PACKAGING ⁽¹⁾ | SPECIAL | | | | | | | | | | |
| SFR16S0 SFR2500 SFR25H0 | 0 = Neutral Z = Value overflow (special) | 0 = Standard Z = Jumper | 3 digit value 1 digit multiplier MULTIPLIER | | F = ± 1 % J = ± 5 % Z = Jumper | N4 A5 A1 R5 | The 2 digits are used for all special parts. 00 = Standard | | | | | | | | | | |
| | | 7 = *10 ⁻³ 2 = *10 ² 8 = *10 ⁻² 3 = *10 ³ 9 = *10 ⁻¹ 4 = *10 ⁴ 0 = *10 ⁰ 5 = *10 ⁵ 1 = *10 ¹ Z = 0000 | | | | | | | | | | | | | | | |
| PRODUCT DESCRIPTION: SFR25 1 % A5 1K0 | | | | | | | | | | | | | | | | | |
| SFR25 | 1 % | A5 | 1K0 | | | | | | | | | | | | | | |
| MODEL/SIZE | TOLERANCE | PACKAGING ⁽¹⁾ | RESISTANCE VALUE | | | | | | | | | | | | | | |
| SFR16S SFR25 SFR25H | ± 1 % ± 5 % | N4 A5 A1 R5 | 47K = 47 kΩ 51R1 = 51.1 Ω | | | | | | | | | | | | | | |

Notes

⁽¹⁾ Please refer to table PACKAGING

- The jumper has a maximum resistance $R_{max.} = 30 \text{ m}\Omega$ at 3 A (SFR16S)
- The jumper has a maximum resistance $R_{max.} = 30 \text{ m}\Omega$ at 5 A (SFR25)
- The PART NUMBER is shown to facilitate the introduction of a unified part numbering system for ordering products

| PACKAGING | | | | | | |
|---------------|-----------|--------------|-----------|------|--------|------|
| MODEL | TOLERANCE | TAPING | AMMO PACK | | REEL | |
| | | | PIECES | CODE | PIECES | CODE |
| SFR16S | 1 % | Axial, 52 mm | 5000 | A5 | 5000 | R5 |
| SFR16S | 5 % | Axial, 52 mm | 5000 | A5 | 5000 | R5 |
| | | | 1000 | A1 | | |
| SFR25, SFR25H | 1 % | Axial, 52 mm | 5000 | A5 | 5000 | R5 |
| SFR25, SFR25H | 5 % | Axial, 52 mm | 5000 | A5 | 5000 | R5 |
| | | | 1000 | A1 | | |
| SFR25, SFR25H | 1 % | Radial | 4000 | N4 | - | - |
| SFR25, SFR25H | 5 % | Radial | 4000 | N4 | - | - |

DIMENSIONS


| DIMENSIONS - Resistor types and relevant physical dimensions in millimeters | | | | |
|---|---------------------|---------------------|---------------------|-------------|
| TYPE | Ø D _{max.} | L _{1 max.} | L _{2 max.} | Ø d |
| SFR16S | 1.9 | 3.5 | 4.1 | 0.45 ± 0.05 |
| SFR25 | 2.5 | 6.5 | 7.5 | 0.58 ± 0.05 |
| SFR25H | 2.5 | 6.5 | 7.5 | 0.58 ± 0.05 |

| MASS PER UNIT | |
|---------------|-----------|
| TYPE | MASS (mg) |
| SFR16S | 102 |
| SFR25 | 205 |
| SFR25H | 205 |

OUTLINES

The length of the body (L_1) is measured by inserting the leads into holes of two identical gauge plates and moving these plates parallel to each other until the resistor body is clamped without deformation (IEC 60294).

MARKING

The nominal resistance and tolerance are marked on the resistor using four or five colored bands in accordance with IEC 60062, marking codes for resistors and capacitors.

PRODUCTS WITH RADIAL LEADS (SFR25, SFR25H)


| DIMENSIONS - Radial taping | | | | |
|----------------------------|---|-------|-----------|------|
| SYMBOL | PARAMETER | VALUE | TOLERANCE | UNIT |
| P | Pitch of components | 12.7 | ± 1.0 | mm |
| P_0 | Feed-hole pitch | 12.7 | ± 0.2 | mm |
| P_1 | Feed-hole centre to lead at topside at the tape | 3.85 | ± 0.5 | mm |
| P_2 | Feed-hole center to body center | 6.35 | ± 1.0 | mm |
| F | Lead-to-lead distance | 4.8 | + 0.7/- 0 | mm |
| W | Tape width | 18.0 | ± 0.5 | mm |
| W_0 | Minimum hold down tape width | 5.5 | - | mm |
| H1 | Component height | 29 | Max. | mm |
| H_0 | Lead wire clinch height | 16.5 | ± 0.5 | mm |
| H_0 | Height of component from tape center | 19.5 | ± 1 | mm |
| D_0 | Feed-hole diameter | 4.0 | ± 0.2 | mm |
| L | Maximum length of snapped lead | 11.0 | - | mm |
| L_1 | Minimum lead wire (tape portion) shortest lead | 2.5 | - | mm |

Note

- Please refer to document "Packaging" for more detail (www.vishay.com/doc?28721).



**FUNCTIONAL PERFORMANCE
PRODUCT CHARACTERIZATION**

Standard values of nominal resistance are taken from the E96/E24 series for resistors with a tolerance of ± 1 % or ± 5 %. The values of the E96/E24 series are in accordance with IEC 60063.

The power that the resistor can dissipate depends on the operating temperature



Maximum dissipation (P_{max}) in percentage of rated power as a function of the ambient temperature (T_{amb})



SFR16S Pulse on a regular basis; maximum permissible peak pulse power (\hat{P}_{max}) as a function of pulse duration (t_i)



SFR16S Pulse on a regular basis; maximum permissible peak pulse voltage (\hat{U}_{max}) as a function of pulse duration (t_i)



SFR25 Pulse on a regular basis; maximum permissible peak pulse power (\hat{P}_{max}) as a function of pulse duration (t_i)



SFR25 Pulse on a regular basis; maximum permissible peak pulse voltage (\hat{U}_{max}) as a function of pulse duration (t_i)



SFR25H Pulse on a regular basis; maximum permissible peak pulse power (\hat{P}_{max}) as a function of pulse duration (t_i)



SFR25H Pulse on a regular basis; maximum permissible peak pulse voltage (\hat{U}_{max}) as a function of pulse duration (t_i)



SFR16S Hot-spot temperature rise (ΔT) as a function of dissipated power



SFR25/SFR25H Hot-spot temperature rise (ΔT) as a function of dissipated power

Note

- The maximum permissible hot-spot temperature is 155 °C.

Application Information



TESTS AND REQUIREMENTS

Essentially all tests are carried out in accordance with IEC 60115-1 specification, category LCT/UCT/56 (rated temperature range: Lower Category Temperature, Upper Category temperature; damp heat, steady state, test duration: 56 days).

The tests are carried out in accordance with IEC 60068-2-xx test method under standard atmospheric conditions according to IEC 60068-1, 5.3.

In the Test Procedures and Requirements table, tests and requirements are listed with reference to the relevant clauses of IEC 60115-1 and IEC 60068-2-xx test methods. A short description of the test procedure is also given. In some instances deviations from the IEC recommendations were necessary for our method of specifying. All soldering tests are performed with mildly activated flux.

| TEST PROCEDURES AND REQUIREMENTS | | | | | | | |
|----------------------------------|-------------------------|---|--|-----------------------------------|---|-------|--------|
| IEC 60115-1 CLAUSE | IEC 60068-2 TEST METHOD | TEST | PROCEDURE | RESISTANCE RANGE | REQUIREMENTS | | |
| | | | | | SFR16S | SFR25 | SFR25H |
| 4.16 | | Robustness of terminations: | | | Number of failures <math> < 10 \times 10^{-6}</math> Number of failures <math> < 10 \times 10^{-6}</math> No damage $\Delta R \text{ max.: } \pm (0.25 \% R + 0.05 \Omega)</math>$ | | |
| 4.16.2 | 21 (Ua1) | Tensile all samples | \varnothing 0.45 mm, load 5 N; 10 s \varnothing 0.58 mm, load 10 N; 10 s | | | | |
| 4.16.3 | 21 (Ub) | Bending half number of samples | \varnothing 0.45 mm, load 2.5 N; 4 x 90° \varnothing 0.58 mm, load 5 N; 4 x 90° | | | | |
| 4.16.4 | 21 (Uc) | Torsion other half of samples | 3 x 360° in opposite directions | | | | |
| 4.17 | 20 (Ta) | Solderability | 2 s; 235 °C: Solder bath method; SnPb40 3 s; 245 °C: Solder bath method; SnAg3Cu0.5 | | Good tinning ($\geq 95 \%$ covered); no damage | | |
| | | Solderability (after aging) | 8 h steam or 16 h 155 °C; leads immersed 6 mm; for 2 s at 235 °C: Solder bath (SnPb40) for 3 s at 245 °C: Solder bath (SnAgCu0.5) method | | Good tinning ($\geq 95 \%$ covered); no damage | | |
| 4.18 | 20 (Tb) | Resistance to soldering heat | Thermal shock: 10 s; 260 °C; 3 mm from body | | $\Delta R \text{ max.: } \pm (0.25 \% R + 0.05 \Omega)</math>$ | | |
| 4.19 | 14 (Na) | Rapid change of temperature | 30 min at - 55 °C and 30 min at + 155 °C; 5 cycles | | $\Delta R \text{ max.: } \pm (0.25 \% R + 0.05 \Omega)</math>$ | | |
| 4.20 | 29 (Eb) | Bump | 3 x 1500 bumps in 3 directions; 40 g | | No damage $\Delta R \text{ max.: } \pm (0.25 \% R + 0.05 \Omega)</math>$ | | |
| 4.22 | 6 (Fc) | Vibration | Frequency 10 Hz to 500 Hz; displacement 1.5 mm or acceleration 10 g; 3 directions; total 6 h (3 x 2 h) | | No damage $\Delta R \text{ max.: } \pm (0.25 \% R + 0.05 \Omega)</math>$ | | |
| 4.23 | 2 (Ba) | Climatic sequence: Dry heat | 16 h; 155 °C | | $R_{\text{ins min.:}} 1000 \text{ M}\Omega</math>\Delta R \text{ max.: } \pm (1 \% R + 0.05 \Omega)</math>$ | | |
| 4.23.2 | | Damp heat (accelerated) 1 st cycle | 24 h; 55 °C; 90 % to 100 % RH | | | | |
| 4.23.3 | 30 (Db) | | | | | | |
| 4.23.4 | 1 (Aa) | Cold | 2 h; - 55 °C | | | | |
| 4.23.5 | 13 (M) | Low air pressure | 2 h; 8.5 kPa; 15 °C to 35 °C | | | | |
| 4.23.6 | 30 (Db) | Damp heat (accelerated) remaining cycles | 5 days; 55 °C; 95 % to 100 % RH | | | | |
| | | | | $R \leq 1 \text{ M}\Omega</math>$ | | | |
| | | | | $R > 1 \text{ M}\Omega</math>$ | $\Delta R \text{ max.: } \pm (1 \% R + 0.05 \Omega)</math>$ | | |
| | | | | | $\Delta R \text{ max.: } \pm (2 \% R + 0.1 \Omega)</math>$ | | |



| TEST PROCEDURES AND REQUIREMENTS | | | | | | | |
|----------------------------------|-------------------------|-----------------------------|---|---|--|--|--|
| IEC 60115-1 CLAUSE | IEC 60068-2 TEST METHOD | TEST | PROCEDURE | RESISTANCE RANGE | REQUIREMENTS | | |
| | | | | | SFR16S | SFR25 | SFR25H |
| 4.24 | 78 (Cab) | Damp heat (steady state) | 56 days; 40 °C; 90 % to 95 % RH; loaded with 0.01 P ₇₀ (steps: 0 V to 100 V) | | R _{ins} min.: 1000 MΩ ΔR max.: ± (2 % R + 0.05 Ω) | | |
| 4.25.1 | | Endurance (at 70 °C) | 1000 h; loaded with P ₇₀ or U _{max} ; 1.5 h ON and 0.5 h OFF | | ΔR max.: ± (2 % R + 0.05 Ω) | | |
| 4.8 | | Temperature coefficient | Between - 55 °C and + 155 °C | R < 4.7 Ω R ≤ 100 kΩ R ≤ 1 MΩ R > 1 MΩ | ≤ ± 250 ppm/K ≤ ± 100 ppm/K ≤ ± 250 ppm/K ≤ ± 250 ppm/K | ≤ ± 100 ppm/K ≤ ± 100 ppm/K ≤ ± 100 ppm/K ≤ ± 250 ppm/K | ≤ ± 100 ppm/K ≤ ± 100 ppm/K ≤ ± 100 ppm/K ≤ ± 250 ppm/K |
| 4.7 | | Voltage proof on insulation | U _{RMS} = 400 V (SFR16S) or U _{RMS} = 600 V (SFR25 and SFR25H); during 1 min; V-block method | | No breakdown | | |
| 4.12 | | Noise | IEC 60195 | R < 68 kΩ R ≤ 100 kΩ R ≤ 1 MΩ R > 1 MΩ | max. 0.1 μV/V max. 0.5 μV/V max. 1.5 μV/V max. 1.5 μV/V | max. 0.1 μV/V max. 0.1 μV/V max. 0.1 μV/V max. 1.5 μV/V | max. 0.1 μV/V max. 0.1 μV/V max. 0.1 μV/V max. 1.5 μV/V |
| 4.6.1.1 | | Insulation resistance | U _{max} . DC = 500 V during 1 min; V-block method | | R _{ins} min.: 1000 MΩ | | |
| 4.13 | | Short time overload | Room temperature; P = 6.25 x P _n (SFR25, SFR25H) or 6.25 x 0.25 W (SFR16S); (voltage not more than 2 x limiting voltage); 10 cycles; 5 s ON and 45 s OFF | | ΔR max.: ± (0.25 % R + 0.05 Ω) | | ΔR max.: ± 1 % R + 0.05 Ω |

HISTORICAL 12NC INFORMATION

- The resistors had a 12-digit numeric code starting with 23.
- The subsequent 6 digits for 1 % or 7 digits for 5 % indicated the resistor type and packaging.
- The remaining digits indicated the resistance value:
 - The first 3 digits for 1 % or 2 digits for 5 % indicated the resistance value.
 - The last digit indicated the resistance decade.

Resistance Decade for ± 5 % Tolerance

| RESISTANCE DECADE | LAST DIGIT |
|-------------------|------------|
| 0.10 Ω to 0.91 Ω | 7 |
| 1 Ω to 9.1 Ω | 8 |
| 10 Ω to 91 Ω | 9 |
| 100 Ω to 910 Ω | 1 |
| 1 kΩ to 9.1 kΩ | 2 |
| 10 kΩ to 91 kΩ | 3 |
| 100 kΩ to 910 kΩ | 4 |
| 1 MΩ to 9.1 MΩ | 5 |
| = 10 MΩ | 6 |

Resistance Decade for ± 1 % Tolerance

| RESISTANCE DECADE | LAST DIGIT |
|-------------------|------------|
| 1 Ω to 9.76 Ω | 8 |
| 10 Ω to 97.6 Ω | 9 |
| 100 Ω to 976 Ω | 1 |
| 1 kΩ to 9.76 kΩ | 2 |
| 10 kΩ to 97.6 kΩ | 3 |
| 100 kΩ to 976 kΩ | 4 |
| 1 MΩ to 9.76 MΩ | 5 |
| = 10 MΩ | 6 |

12NC Example

The 12NC of a SFR25 resistor, value 5600 Ω ± 5 %, taped on a bandolier of 5000 units in ammpack was: 2322 181 43562.



| HISTORICAL 12NC - Resistor type and packaging | | | | | |
|--|--------|--------------------------|----------------|----------------|----------------------|
| TYPE | TOL. | 23.. | | | |
| | | BANDOLIER IN AMMOPACK | | | BANDOLIER ON REEL |
| | | RADIAL TAPED | STRAIGHT LEADS | | STRAIGHT LEADS |
| | | 4000 UNITS | 1000 UNITS | 5000 UNITS | 5000 UNITS |
| SFR16S | ± 5 % | - | ..22 187 73... | ..22 187 53... | ..06 187 23... |
| | ± 1 % | - | - | ..06 187 3... | ..06 187 1.... |
| | Jumper | - | - | ..06 187 90013 | ..22 187 90346 |
| SFR25 | ± 5 % | ..06 184 03... | ..22 181 53... | ..22 181 43... | ..22 181 63... |
| | ± 1 % | - | - | ..22 188 2... | ..06 181 8.... |
| | Jumper | - | ..22 181 90018 | ..22 181 90019 | ..06 181 90011 |
| SFR25H | ± 5 % | ..06 186 03... | ..22 186 16... | ..22 186 76... | ..06 186 63... |
| | ± 1 % | - | - | ..22 186 3.... | ..06 186 8.... |



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