Panasonic

Power Type Resistors

| Fire | | | | | | Quick G | iuide | | | | | | |
|--|-------------------------|-----------|------------------------------------|-----------------|-------------------|----------------------|---------------------------------|-------------------|--|------------------|----------|------|------|
| Find 1985 Find | Products | Туре | Features | Rating at 70 °C | Range | Tolerance | T.C.R. ×10 ⁻⁶ /°C | Temperature Range | | | (Weight) | | Page |
| Michael Coloring Final State Final Sta | Film Resistors | ERG12S | coating | 0.5 | 10 to 47 k ±5 -5t | -55 to +130 | 55 to +130 | | 0.26 | 2000 | | | |
| Metal Guide Finance in the finan | | | | | | | | | IEC 60115-4 JIS C 5201-4 52 mr Tapin 74 mr | | | | 50 |
| File Registry File Registr | | ERG1S, 1F | | 1 | | | | | | | 0.33 | 2000 | |
| Final Content | | ERG2S, 2F | | 2 | 10 to 100 k | | | | | | 0.66 | 1000 | |
| Figure F | | ERG3S, 3F | | 3 | 10 to 100 k | ±5 | | | | | 1.47 | 1000 | |
| PRINTED PRIN | | ERG5S, 5F | | 5 | 10 to 100 k | ±5 | ±200 | | | Taping | 3.54 | 500 | |
| Motor Film Resistance FRXSS, 8F September Film Resistance Film Resistance FRXSS, 8F September Film Resistance FRXSS, 8F September Film Resistance FIRMS, 8F September Film Resistance FIRMS, 8F September FIRMS, 8F | | | | | 0.1 to 9.1 | | | | | Taping Radial | | | |
| Matis Film Resistors ERXS. pt Coverestance FRANS. pt Coverestance C | | ERX12S | | 0.5 | 0.1 to 9.1 | | ±350 | -55 to +130 | | | 0.26 | 2000 | |
| Moting Final Size Fixe State Fixe Stat | | ERX1S,1F | | 1 | | | | | | | 0.33 | 2000 | |
| Paral Size Price | Metal Film | | coating Low resistance value | | | | | 55.4× 000 | | | | | |
| RENXS, SF So | | ERX2S, 2F | | 2 | | | | | | | 0.66 | 1000 | |
| ERXIS, SF S S O.31 to 9.1 4.2 4.200 | Giriali 6/26 | ERX3S, 3F | | 3 | | | | | | 1.47 | 1000 | 7 | |
| FRXSS, SF 5 | | | | | | | | | | | | | |
| Anti-Pulso Power Resistance | | ERX5S, 5F | | 5 | | | ±200 | | | | 3.54 | 500 | |
| High resistance Flower Pensiston Flower Pensi | Power | ERG12D | 4 ~ | 0.5 | 51 k to 240 k | | | -55 to +130 | | Taping 74 mm | 0.26 | 2000 | - 57 |
| Property Resistors ERG2D Value 2 110 k to 510 k ±5 -55 to +200 E2 mm 1.47 1000 | | ERG1D | | 1 | 110 k to 330 k | - | _ | | _ | | 0.33 | 2000 | |
| ERX12 | | ERG2D | | 2 | 110 k to 510 k | | | -55 to +200 | | | 0.66 | 1000 | |
| Metal Film Resistors ERXIL Low resistance value 1 22 m to 82 m ±5 ±1000 −55 to +200 -55 to +200 -65 t | | ERG3D | | 3 | 110 k to 750 k | | | | | | 1.47 | 1000 | |
| Resistors ERXIL Value 1 22 m to 82 m ±5 ±1000 −55 to +200 − 0.33 2000 Resistors ERX2L 2 0.1 to 8.2 ±10 10 to 900 ±5 ±10 10 to 680 ±5 ±10 10 to 680 ±5 ±10 10 to 1.5 k ±5 ERF7A Axial leads type 5 0.18 to 8.2 ±10 10 to 1.5 k ±5 ±5 ERF7A ERF1L ERF3L 2 ±10 ERF3L ERF5L 5 ±10 ERF7L ERF7L 5 ±10 ERF7L ERF7L 7 0.01 to 0.082 ERF10A Radial insertion 10 −55 to +155 ERF7L Radial insertion 10 −55 to +155 ERF7L ERF5L 5 ±10 ERF5L 5 ±10 ERF7L 5 5 ERF7L 5 ERF7L 5 5 ERF7L | | ERX12L | | 0.5 | | | | -55 to +130 | _ | | 0.26 | 2000 | 59 |
| ERX2L 2 | | ERX1L | | 1 | 22 m to 82 m | ±5 | | -55 to +200 | | | 0.33 | 2000 | |
| ERF2A 2 10 to 390 ±5 2 10 to 390 ±5 3 0.18 to 8.2 ±10 10 to 680 ±5 2 2 | | ERX2L | | 2 | | | | | | | 0.66 | 1000 | |
| ERF3A RF5A Axial leads type 5 0.18 to 8.2 ±10 10 to 680 ±5 10 to 680 ±5 10 to 680 ±5 10 to 680 ±5 10 to 1.5 k ±5 10 to | Resistors Flameproof | FRF2A | Axial leads type | 2 | 0.1 to 8.2 | ±10 | ±260 | -55 to +155 | EIAJ | | 2 | 1000 | |
| Ref SA Axial leads type S 10 to 680 ±5 10 to 1.5 k ±5 10 to 2.4 k ±6 10 to 2 | | | | | 10 to 390 | ±5 | | | | | | | |
| ERF5A Axial leads type 5 0.18 to 8.2 ±10 10 to 680 ±5 2 10 to 680 ±5 2 10 to 1.5 k ±5 2 10 to 2.4 k ±5 2 ERF5TL 2 ERF5TL 5 ±10 2 10 to 0.082 ±10 ERF5TL 5 ±10 | | ERF3A | | 3 | | | | | | | 4 | | |
| ERF5A Axial leads type 5 10 to 680 ±5 | | | | 5 | | | | | | | | | |
| ERF7A Part | | ERF5A | | | | | | | | | 5 | | |
| Far-Find Far-Fin | | | | | | | | | | | | | |
| Fare Figure 2 Fare Figure 3 Fare Figure 3 Fare Figure 4 Fare Figure 5 Fare Figur | | ERF7A | | 7 | | | | | | | 8 | 500 | |
| ERF10A 10 10 to 2.4 k ±5 EC 60115-4 EIAJ RC-2123A - 12 | | | | 10 | | | | | | | | | |
| Resistors Flameproof Bath-tub Type ERF2TL ERF3TL ERF5TL ERF10TL ERF2T Type ERF2T ERF3T ERF3T ERF5T E | | ERF10A | | | | | | | | | 12 | | |
| ERF3TL ERF7TL ERF10TL ERF10TL ERF2T ERF3T ERF3T ERF5T ERF5T ERF5T ERF7T Radial insertion type 3 0.01 to 0.082 ±10 5.5 6.7 500 8.8 10.7 10.7 2 0.1 to 390 3.9 5.5 6.7 500 5 0.18 to 680 ±10 (min. < 8.2 Ω) 5.5 6.7 500 8.8 | | ERF2TL | -1 | 2 | 10 to 2.4 K | | | | | | 3.9 | | 61 |
| ERF7TL ERF10TL Radial insertion type 2 0.1 to 390 ERF5T ERF5T ERF7T 7 0.02 to 1.5 k 7 0.22 to 1.5 k 8.8 10.7 3.9 5.5 6.7 500 8.8 | | ERF3TL | | 3 | 0.01 to 0.082 | | | | | | 5.5 | | |
| ERF10TL Radial insertion type 2 0.1 to 390 ERF3T | | ERF5TL | | 5 | | | | | | | 6.7 | 500 | |
| ERF10TL Radial insertion type 2 0.1 to 390 ERF3T | | ERF7TL | | 7 | 0.01 to 0.1 | | | | | | 8.8 | | |
| ERF2T type 2 0.1 to 390 ERF3T 3 0.18 to 680 (min. < 8.2 Ω) ERF5T 5 0.18 to 680 ±5 (10 Ω≦) ERF7T 7 0.22 to 1.5 k (10 Ω≦) | | | | | | | | | | | | | |
| ERF3T 3 0.18 to 680 ± 10 $(min. < 8.2 Ω)$ ± 5 $0.18 to 680 \pm 5$ ± 5 $0.22 to 1.5 k \pm 5 (10 Ω≤) \pm 8.8$ | | | | | 0.1 to 390 | | | | | | | | |
| ERF5T 5 0.18 to 680 ± 5 $(10 Ω≤)$ 8.8 | | | | | | (min. < 8.2 Ω) ±5 | | | | | | 1 | |
| ERF7T 7 0.22 to 1.5 k ±5 (10 Ω≦) 8.8 | | | | | | | | | | | | 500 | |
| (10.22=) | | | | | | | | | | | |] | |
| ERF10T 10 0.33 to 2 k 10.7 | | ERF10T | | | | | | | | | | | |

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Power Type Resistors

Quick Guide

Power Resistance Resistance Category Temperature Range (°C) T.C.R. ×10⁻⁶/°C Reference Standards For Automatic Placement Standard Quantity Products Туре Features ating at 70 (W) Range (Weight) Page (%) [g/pc.] ERF5ZX 6 ±10 0.22 to 8.2 ERF5ZY 7 10 to 820 ±5 FRF57 6.9 ERF7ZX 7.6 0.39 to 8.2 +10 ERF7ZY 8.6 10 to 1.5 k ±5 ERF7Z 8.5 ERF10ZX 10 Wirewound 0.39 to 8.2 ±10 IEC 60115-4 EIAJ RC-2123A Off PC board Resistors ERF10ZY 10 ±260 -55 to +155 10.8 500 61 Flameproof Bath-tub Type type 10 to 2.2 k ±5 ERF10Z 10.6 ERF15ZX 17 0.51 to 8.2 ±10 ERF15ZY 15 20 10 to 2.2 k ±5 ERF15Z

±10

±5

±5

±10

0.51 to 8.2

10 to 2.4 k

1.2 to 450

8.2 to 910

11 to 1.2 k

15 to 1.6 k

20

60

100

150

200

Electric Power Consumption vs. Resistance Value

ERF20ZX

ERF20ZY

ERF20Z

ERF60W

ERF100W

ERF150W

ERF200W

Wirewound Resistors Flameproof Bath-tub Type

High power with Aluminum case type

ERX : Metal Film Resistors ERG : Metal Oxide Film Resistors ERF : Wirewound Resistors

19.2

23.5

26.5

25.7

50

65

