DATA SHEET

MRS16; MRS25
Professional leaded resistors

Maintenance types (not for new designs)
File under BCcomponents, BC08

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BC COMPONENTS

Professional leaded resistors MRS16; MRS25

FEATURES

- Professional resistors in small outlines
- Low noise.

APPLICATIONS

- All general purpose applications.

DESCRIPTION

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 wires of electrolytic copper are welded to the end-caps. The resistors are coated with lacquer which provides electrical, mechanical, and climatic protection. Four or five colour code rings designate the resistance value and tolerance according to **IEC 60 062**.

Suitable replacements for MRS16 and MRS25 are the MBA 0204 and MBB 0207 professional.

QUICK REFERENCE DATA

DESCRIPTION	VALUE	
	MRS16	MRS25
Resistance range	4,99 Ω to 1 MΩ	1 Ω to 10 MΩ
Resistance tolerance and series	±1%; E24/E96 series	
Maximum dissipation at T_{amb} = 70 °C	0,4 W	0,6 W
Thermal resistance (R_{th})	170 K/W	150 K/W
Temperature coefficient	±50 ppm/K	
Maximum permissible voltage (DC or RMS)	200 V	350 V
Basic specifications	IEC 60115-1 and 60115-2	
Climatic category (IEC 60068)	55/155/56	
Max. resistance change for resistance range, $\Delta R/R$ max., after:		
load:		
R ≤ 100 kΩ	±(0,5% + 0,05 Ω)	±(0,5% + 0,05 Ω)
R > 100 kΩ	±(1% + 0,05 Ω)	±(0,5% + 0,05 Ω)
climatic tests:		
R ≤ 100 kΩ	±(0,5% + 0,05 Ω)	±(0,5% + 0,05 Ω)
R > 100 kΩ	±(1% + 0,05 Ω)	±(0,5% + 0,05 Ω)
soldering:		
R ≤ 100 kΩ	±(0,1% + 0,05 Ω)	±(0,1% + 0,05 Ω)
R > 100 kΩ	±(0,25% + 0,05 Ω)	±(0,1% + 0,05 Ω)
short time overload	±(0,25% + 0,05 Ω)	±(0,25% + 0,05 Ω)

ORDERING INFORMATION

Numeric Ordering code (12NC)

- The resistors have a 12-digit ordering code starting with 2322 15.
- The subsequent 2 digits indicate the resistor type and packaging; see Table 1.
- The remaining 4 digits indicate the resistance value:
  - The first 3 digits indicate the resistance value.
  - The last digit indicates the resistance decade in accordance with Table 2.

Table 1 Ordering code indicating resistor type and packaging

TYPE	ORDERING CODE 2322 15.		
	BANDOLIER IN AMMOPACK		BANDOLIER ON REEL
	1000 units	5000 units	5000 units
MRS16	7 1....	7 2....	7 3....
MRS25	6 1....	6 2....	6 3....

Table 2 Last digit of 12NC indicating resistance decade

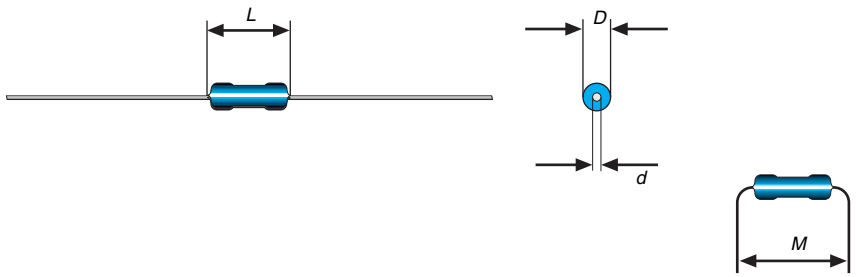
RESISTANCE DECADE	LAST DIGIT
1 to 9,76 Ω	8
10 to 97,6 Ω	9
100 to 976 Ω	1
1 to 9,76 kΩ	2
10 to 97,6 kΩ	3
100 to 976 kΩ	4
1 to 9,76 MΩ	5
10 MΩ	6

ORDERING EXAMPLE

The ordering code of a MRS16 resistor, value 750 Ω, on a bandolier of 1000 units in ammopack is: 2322 157 17501.

MECHANICAL DATA

Outlines



For dimensions see Table 3.

Fig.2 Outline.

Table 3 Leaded resistor types, mass and relevant physical dimensions; see Fig.2

TYPE	VERSION	D_{max} (mm)	L_{max} (mm)	d_{nom} (mm)	M_{min} (mm)	MASS (mg)
MRS 16	A	1.6	3.6	0.5	5.0	125
	B	1.9	3.4	0.5	5.0	125
MRS 25	–	2.5	6.5	0.6	10.0	700

Note

1. Due to the various sources of production, delivery of specific versions (A or B) of MRS 16 cannot be guaranteed.

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M39006/22-0577H Y00892K49000BR13L VS-12CWQ10FNPBF M8340109M6801GGD03 VS-MBRB1545CTPBF 1KAB100E CRCW1210360RFKEA VSMF4720-GS08 CRCW04024021FRT7 001789X LTO050FR0500JTE3 CRCW0805348RFKEA LVR10R0200FE03 CRCW12063K30FKEAHP 009923A CRCW2010331JR02 CRCW25128K06FKEG CS6600552K000B8768 M39003/01-2289 M39003/01-2784 M39006/25-0133 M39006/25-0228 M64W101KB40 M64Z501KB40 CW001R5000JS73 CW0055R000JE12 CW0056K800JB12 CW0106K000JE73 672D826H075EK5C CWR06JC105KC CWR06NC475JC MAL219699001E3 MCRL007035R00JHB00 PTF56100K00QYEK PTN0805H1502BBTR1K RCL12252K20JNEG RCWL1210R130JNEA RH005220R0FE02 RH005330R0FC02 RH010R0500FC02 132B20103 RH1007R000FJ01 RH2503R500FE01 RH254R220FS03 RH-50-40R2-1%-C02 134D336X9075C6 132B00301 135D277X0025F6 DG202BDY-T1-E3 DG9426EDQ-T1-GE3