



## SURFACE MOUNT ASSEMBLY (ISA-PLAN®)

**Product series: VMx**

Sizes: 0805 / 1206 / 2010 / 2512



**Technical data**

Resistance values	5 mOhm to 2 Ohm
Tolerance	1%, 2%, 5%
Temperature coefficient	< 20 ppm/K
Applicable temperature range	-55 °C to +170 °C
Load capacity	Up to 3 W
Internal heat resistance	From 25 K/W
Insulation voltage	200 V
Inductance	< 3 nH
Stability (nominal load)	< 0.5% after 2000 h ( $T_K = 65\text{ °C}$ )
Deviation terminal temperature = $T_K$	< 0.7% after 2000 h ( $T_K = 95\text{ °C}$ )

**Features**

- Up to 3 Watts permanent power at 95 °C
- Constant current up to 25 A (5 mOhm)
- Very high pulse power rating
- Very good long-term stability
- Standard solder pad size
- Mounting: reflow and infrared soldering
- AEC-Q200 qualified

**Advantages/user benefits**

- 4-terminal connection on substrate
- Tin/copper plated terminals for optimum soldering points
- Standard solder pads
- Reflow and infrared soldering
- Extremely low internal heat resistance
- Virtually unaffected by ambient temperature in range -55 to +170 °C due to low TC
- Negligible thermal EMF against copper (< 1 µV/K)
- Very good long-term stability under full load

Packaging	VMI	VMK	VMP	VMS
Sizes	0805	1206	2010	2512
Parts per reel	15000	15000	12500	11000
In plastic or cardboard tape	8 mm	8 mm	12 mm	12 mm