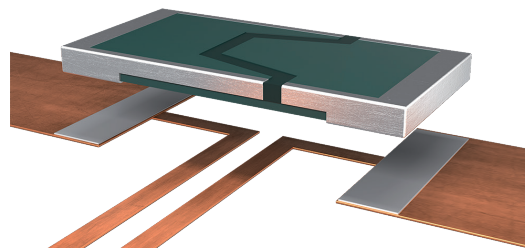


25004/VMK (1206)

ISA-PLAN® PRECISION RESISTOR



FEATURES

- Constant current up to 8.5 A (10 mOhm)
- 0.75 W power rating at 70 °C
- Two-terminal configuration
- Excellent temperature behavior
- Excellent heat dissipation
- High application temperature range -65 to +170 °C
- SnPb plated terminals

APPLICATIONS

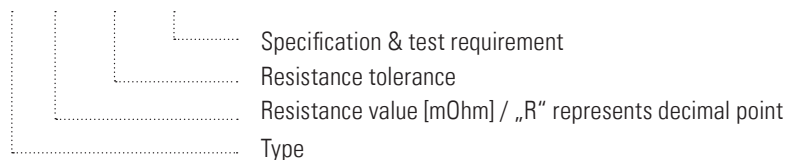
- Industrial Grade / Engineering Models (Test Code A)
- Military Grade (Test Code B)
- Space Level (Test Code T)

Technical data

Resistance values	mOhm	10 to 470		
Tolerance	%	0.5 / 1		
Temperature coefficient	ppm/K	-55°C to +25°C	+25°C to +125°C	-55°C to +125°C
		±60	±35	±50
Applicable temperature range	°C	-65 to +170		
Power rating P_{70°C}	W	0.75		
Stability (at rated power) deviation after 1000h, T_K = Terminal temperature	%	< 0.5 ($T_K=70^\circ\text{C}$)		

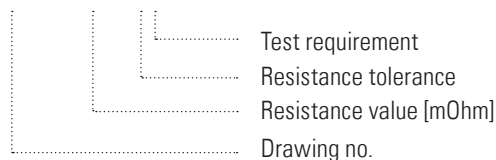
Ordering code Isabellenhütte

VMK - R010 - 1.0 - MB



DLA Part or Identifying Number (PIN)

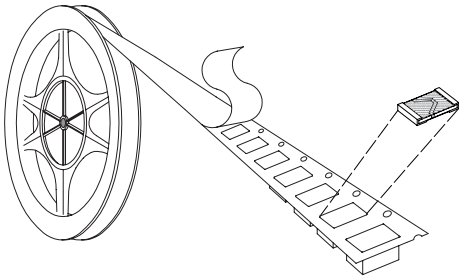
25004 - ***** DB



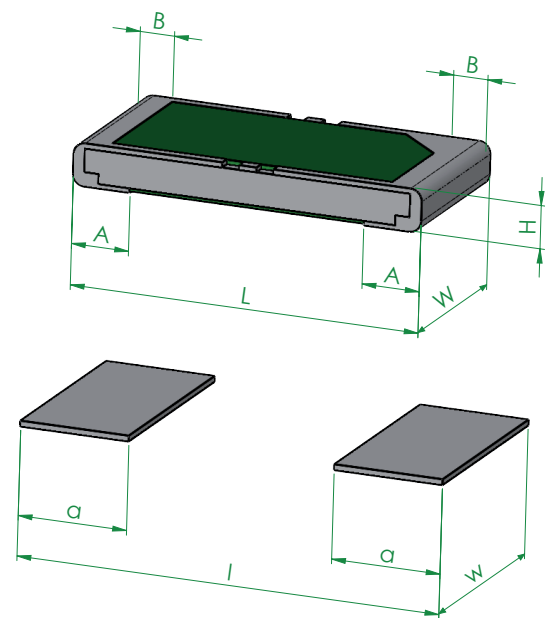
Recommended solder profile

Reflow-, IR-soldering				
Temperature	°C	260	255	217
Time	sec	peak	40	90

Tape and reel information



Mechanical dimensions and pcb-layout proposal (reflow-soldering) [mm]



Type	L	W	H	A	B
VMK-Mx	3.05±0.2	1.52±0.2	0.4±0.15	0.5±0.15	0.3±0.15

Solder pad type	l	w	a
VMK-Mx	3.7	1.9	0.95

Available standard resistance values and tolerances*

Version	DLA drawing no.	Test code	Test requirements acc. to MIL-PRF 32773
Industrial Grade	25004	A	Group A inspection (M Level)
Military Grade		B	Group A & Group B inspection (T Level)
Space Level		T	Group A & Group B inspection (T Level) + Life Test (1000 hrs) acc. to para 4.5 of the DLA drawing

Ordering code	PIN
VMK-R010-0.5-MA	25004-OR010DA
VMK-R010-0.5-MB	25004-OR010DB
VMK-R010-0.5-MT	25004-OR010DT
VMK-R010-1.0-MA	25004-OR010FA
VMK-R010-1.0-MB	25004-OR010FB
VMK-R010-1.0-MT	25004-OR010FT
VMK-R012-0.5-MA	25004-OR012DA
VMK-R012-0.5-MB	25004-OR012DB
VMK-R012-0.5-MT	25004-OR012DT
VMK-R012-1.0-MA	25004-OR012FA
VMK-R012-1.0-MB	25004-OR012FB
VMK-R012-1.0-MT	25004-OR012FT
VMK-R015-0.5-MA	25004-OR015DA
VMK-R015-0.5-MB	25004-OR015DB
VMK-R015-0.5-MT	25004-OR015DT
VMK-R015-1.0-MA	25004-OR015FA
VMK-R015-1.0-MB	25004-OR015FB
VMK-R015-1.0-MT	25004-OR015FT
VMK-R020-0.5-MA	25004-OR020DA
VMK-R020-0.5-MB	25004-OR020DB
VMK-R020-0.5-MT	25004-OR020DT
VMK-R020-1.0-MA	25004-OR020FA
VMK-R020-1.0-MB	25004-OR020FB
VMK-R020-1.0-MT	25004-OR020FT
VMK-R022-0.5-MA	25004-OR022DA
VMK-R022-0.5-MB	25004-OR022DB
VMK-R022-0.5-MT	25004-OR022DT
VMK-R022-1.0-MA	25004-OR022FA
VMK-R022-1.0-MB	25004-OR022FB
VMK-R022-1.0-MT	25004-OR022FT
VMK-R025-0.5-MA	25004-OR025DA
VMK-R025-0.5-MB	25004-OR025DB
VMK-R025-0.5-MT	25004-OR025DT
VMK-R025-1.0-MA	25004-OR025FA
VMK-R025-1.0-MB	25004-OR025FB
VMK-R025-1.0-MT	25004-OR025FT
VMK-R027-0.5-MA	25004-OR027DA
VMK-R027-0.5-MB	25004-OR027DB
VMK-R027-0.5-MT	25004-OR027DT

Ordering code	PIN
VMK-R027-1.0-MA	25004-OR027FA
VMK-R027-1.0-MB	25004-OR027FB
VMK-R027-1.0-MT	25004-OR027FT
VMK-R030-0.5-MA	25004-OR030DA
VMK-R030-0.5-MB	25004-OR030DB
VMK-R030-0.5-MT	25004-OR030DT
VMK-R030-1.0-MA	25004-OR030FA
VMK-R030-1.0-MB	25004-OR030FB
VMK-R030-1.0-MT	25004-OR030FT
VMK-R033-0.5-MA	25004-OR033DA
VMK-R033-0.5-MB	25004-OR033DB
VMK-R033-0.5-MT	25004-OR033DT
VMK-R033-1.0-MA	25004-OR033FA
VMK-R033-1.0-MB	25004-OR033FB
VMK-R033-1.0-MT	25004-OR033FT
VMK-R039-0.5-MA	25004-OR039DA
VMK-R039-0.5-MB	25004-OR039DB
VMK-R039-0.5-MT	25004-OR039DT
VMK-R039-1.0-MA	25004-OR039FA
VMK-R039-1.0-MB	25004-OR039FB
VMK-R039-1.0-MT	25004-OR039FT
VMK-R047-0.5-MA	25004-OR047DA
VMK-R047-0.5-MB	25004-OR047DB
VMK-R047-0.5-MT	25004-OR047DT
VMK-R047-1.0-MA	25004-OR047FA
VMK-R047-1.0-MB	25004-OR047FB
VMK-R047-1.0-MT	25004-OR047FT
VMK-R050-0.5-MA	25004-OR050DA
VMK-R050-0.5-MB	25004-OR050DB
VMK-R050-0.5-MT	25004-OR050DT
VMK-R050-1.0-MA	25004-OR050FA
VMK-R050-1.0-MB	25004-OR050FB
VMK-R050-1.0-MT	25004-OR050FT
VMK-R062-0.5-MA	25004-OR062DA
VMK-R062-0.5-MB	25004-OR062DB
VMK-R062-0.5-MT	25004-OR062DT
VMK-R062-1.0-MA	25004-OR062FA
VMK-R062-1.0-MB	25004-OR062FB
VMK-R062-1.0-MT	25004-OR062FT

Available standard resistance values and tolerances*

Ordering code	PIN
VMK-R068-0.5-MA	25004-OR068DA
VMK-R068-0.5-MB	25004-OR068DB
VMK-R068-0.5-MT	25004-OR068DT
VMK-R068-1.0-MA	25004-OR068FA
VMK-R068-1.0-MB	25004-OR068FB
VMK-R068-1.0-MT	25004-OR068FT
VMK-R100-0.5-MA	25004-OR100DA
VMK-R100-0.5-MB	25004-OR100DB
VMK-R100-0.5-MT	25004-OR100DT
VMK-R100-1.0-MA	25004-OR100FA
VMK-R100-1.0-MB	25004-OR100FB
VMK-R100-1.0-MT	25004-OR100FT
VMK-R120-0.5-MA	25004-OR120DA
VMK-R120-0.5-MB	25004-OR120DB
VMK-R120-0.5-MT	25004-OR120DT
VMK-R120-1.0-MA	25004-OR120FA
VMK-R120-1.0-MB	25004-OR120FB
VMK-R120-1.0-MT	25004-OR120FT
VMK-R140-0.5-MA	25004-OR140DA
VMK-R140-0.5-MB	25004-OR140DB
VMK-R140-0.5-MT	25004-OR140DT
VMK-R140-1.0-MA	25004-OR140FA
VMK-R140-1.0-MB	25004-OR140FB
VMK-R140-1.0-MT	25004-OR140FT
VMK-R150-0.5-MA	25004-OR150DA
VMK-R150-0.5-MB	25004-OR150DB
VMK-R150-0.5-MT	25004-OR150DT
VMK-R150-1.0-MA	25004-OR150FA
VMK-R150-1.0-MB	25004-OR150FB
VMK-R150-1.0-MT	25004-OR150FT
VMK-R180-0.5-MA	25004-OR180DA
VMK-R180-0.5-MB	25004-OR180DB
VMK-R180-0.5-MT	25004-OR180DT
VMK-R180-1.0-MA	25004-OR180FA
VMK-R180-1.0-MB	25004-OR180FB
VMK-R180-1.0-MT	25004-OR180FT
VMK-R200-0.5-MA	25004-OR200DA

Ordering code	PIN
VMK-R200-0.5-MB	25004-OR200DB
VMK-R200-0.5-MT	25004-OR200DT
VMK-R200-1.0-MA	25004-OR200FA
VMK-R200-1.0-MB	25004-OR200FB
VMK-R200-1.0-MT	25004-OR200FT
VMK-R220-0.5-MA	25004-OR220DA
VMK-R220-0.5-MB	25004-OR220DB
VMK-R220-0.5-MT	25004-OR220DT
VMK-R220-1.0-MA	25004-OR220FA
VMK-R220-1.0-MB	25004-OR220FB
VMK-R220-1.0-MT	25004-OR220FT
VMK-R300-0.5-MA	25004-OR300DA
VMK-R300-0.5-MB	25004-OR300DB
VMK-R300-0.5-MT	25004-OR300DT
VMK-R300-1.0-MA	25004-OR300FA
VMK-R300-1.0-MB	25004-OR300FB
VMK-R300-1.0-MT	25004-OR300FT
VMK-R330-0.5-MA	25004-OR330DA
VMK-R330-0.5-MB	25004-OR330DB
VMK-R330-0.5-MT	25004-OR330DT
VMK-R330-1.0-MA	25004-OR330FA
VMK-R330-1.0-MB	25004-OR330FB
VMK-R330-1.0-MT	25004-OR330FT
VMK-R360-0.5-MA	25004-OR360DA
VMK-R360-0.5-MB	25004-OR360DB
VMK-R360-0.5-MT	25004-OR360DT
VMK-R360-1.0-MA	25004-OR360FA
VMK-R360-1.0-MB	25004-OR360FB
VMK-R360-1.0-MT	25004-OR360FT
VMK-R470-0.5-MA	25004-OR470DA
VMK-R470-0.5-MB	25004-OR470DB
VMK-R470-0.5-MT	25004-OR470DT
VMK-R470-1.0-MA	25004-OR470FA
VMK-R470-1.0-MB	25004-OR470FB
VMK-R470-1.0-MT	25004-OR470FT

* Further values on request

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