



One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components

Vishay Dale Resistors

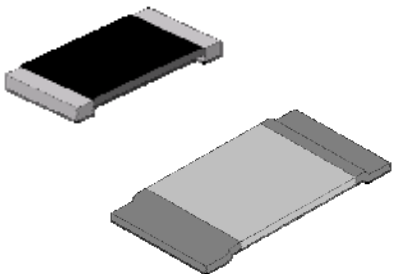
Review of Select Products - 2009

Build **Vishay**
into your **Design**

WSLT – HIGH-TEMPERATURE (275 °C) POWER METAL STRIP® RESISTOR

FEATURES

- 1-, 3-, AND 5-WATT POWER DERATING TO 275 °C
- LOW RESISTANCE: 0.0002 OHMS to 0.500 OHMS
- TCR: ± 30 ppm/°C to ± 275 ppm/°C
- TCR RESISTOR ELEMENT: < 20 ppm/°C
- LOW THERMAL EMF: < 1 μ V/°C



STATUS:	NEW ('08)	
SAMPLES:	2 weeks	
L-TIME:	4 – 6 weeks	
DATASHEET:	Released	YES
	On WEB	YES
BUD-PRICE:	20.00 \$/100	
<u>Respons.</u>	Smejkal / Rainer	

TARGET APPLICATIONS

[AUTO](#)

- UNDERHOOD APPLICATIONS OF MOTOR CONTROLS, ENGINE TRANSMISSION, AND CURRENT SENSING

[TELECOM](#)

[COMP](#)

[CONSUM](#)

[INDUST](#)

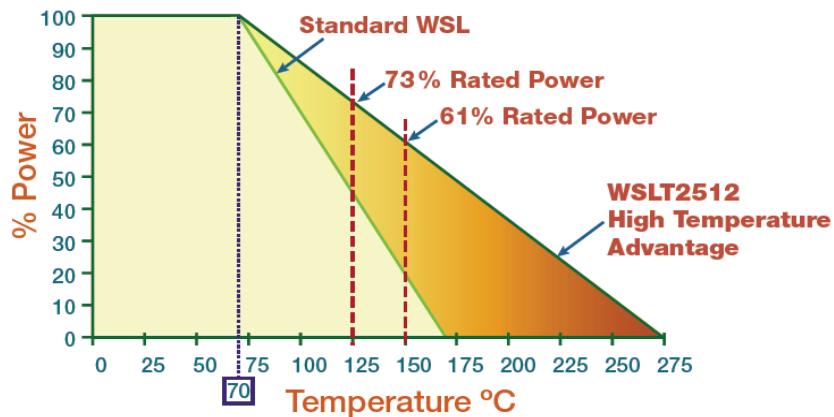
- CURRENT SENSING IN HEAVY CONSTRUCTION EQUIPMENT AND DRILLING APPLICATIONS

[MEDICAL](#)

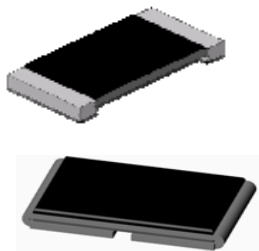
[AMS](#)

- CURRENT SENSING IN EXTREME TEMPERATURE ENVIRONMENTS

DESCRIPTION / REMARKS



WSLP AND WSH – HIGH-POWER-DENSITY POWER METAL STRIP® RESISTORS



FEATURES

- 0805 SIZE AT 0.5 W, 1206 SIZE AT 1 W, 2818 SIZE AT 5 W
- LOW RESISTANCE: 0.001 OHM to 0.1 OHM
- TCR: ± 30 ppm/°C to ± 275 ppm/°C
- TCR RESISTOR ELEMENT: < 20 ppm/°C
- LOW THERMAL EMF: < 1 μ V/°C



STATUS:	NEW ('08)	
SAMPLES:	2 weeks	
L-TIME:	4 – 6 weeks	
DATA SHEET:	Released	YES
	On WEB	YES
BUD-PRICE:	15.00 \$/100	
Respons.	Smejkal / Rainer	

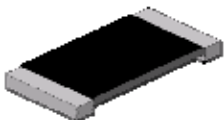
DESCRIPTION / REMARKS



TARGET APPLICATIONS

AUTO	- ALL ELECTRONIC CONTROLS. PUSHING SMALLER SIZE WITH HIGH POWER.
TELECOM	- DC / DC AND POWER MANAGEMENT.
COMP	- DC / DC AND POWER MANAGEMENT.
CONSUM	- DC / DC AND LI-ION BATTERY MANAGEMENT.
INDUST	- MOTOR CONTROLS AND INSTRUMENTATION.
MEDICAL	- IMPLANTABLES AND INSTRUMENTATION.
AMS	- DC / DC AND POWER MANAGEMENT.

WSLS2512 – POWER METAL STRIP® RESISTOR WITH IMPROVED STABILITY



FEATURES

- POWER RATING: 1 WATT
- IMPROVED STABILITY OF 0.5 % or 0.25 %
- LOW RESISTANCE: 0.010 OHM to 0.1 OHM
- TCR: ± 30 ppm/ $^{\circ}$ C to ± 75 ppm/ $^{\circ}$ C
- TCR RESISTOR ELEMENT: < 20 ppm/ $^{\circ}$ C
- LOW THERMAL EMF: < 1 μ V/ $^{\circ}$ C



STATUS:	NEW ('08)	
SAMPLES:	2 weeks	
L-TIME:	4 – 6 weeks	
DATA SHEET:	Released	YES
	On WEB	YES
BUD-PRICE:	45.00 \$/100	
<u>Respons.</u>	Smejkal / Rainer	

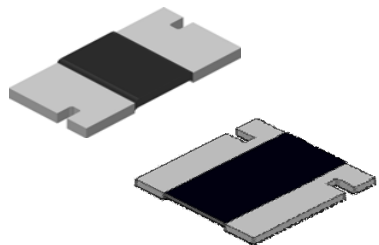
TARGET APPLICATIONS

<u>AUTO</u>	- UNDERHOOD APPLICATIONS OF MOTOR CONTROLS, ENGINE TRANSMISSION, AND CURRENT SENSING
<u>TELECOM</u>	
<u>COMP</u>	
<u>CONSUM</u>	
<u>INDUST</u>	- CURRENT SENSING IN HEAVY CONSTRUCTION EQUIPMENT AND DRILLING APPLICATIONS
<u>MEDICAL</u>	
<u>AMS</u>	- CURRENT SENSING IN SPACE ENVIRONMENTS

DESCRIPTION / REMARKS

- LOAD LIFE STABILITY OF 0.5 % OR 0.25 % AT 125 $^{\circ}$ C FOR 2000 HOURS
- SUITABLE FOR AUTOMOTIVE UNDERHOOD APPLICATIONS
- HIGH STABILITY INCREASES CURRENT SENSING ACCURACY / PERFORMANCE

WSK – 4-TERMINAL POWER METAL STRIP® FOR IMPROVED CURRENT SENSING



FEATURES

- POWER RATINGS: 1 W TO 5 W
- LOW RESISTANCE: 0.001 OHM to 0.025 OHMS
- TCR: ± 30 ppm/°C to ± 275 ppm/°C
- TCR RESISTOR ELEMENT: < 20 ppm/°C
- LOW THERMAL EMF: < 1 μ V/°C



STATUS:	NEW ('08)	
SAMPLES:	2 weeks	
L-TIME:	4 – 6 weeks	
DATA SHEET:	Released	YES
	On WEB	YES
BUD-PRICE:	20.00 \$/100	
Respons.	Smejkal / Rainer	

TARGET APPLICATIONS

[AUTO](#)

- MOTOR CONTROLS IN ELECTRONIC POWER STEERING (EPS AND EHPS), CLIMATE CONTROLS, AND BRUSHLESS DC MOTORS (ENGINE FAN)

[TELECOM](#)

[COMP](#)

- POWER MANAGEMENT AND VRM CONTROLS FOR NOTEBOOK PCS

[CONSUM](#)

[INDUST](#)

- MOTOR CONTROLS AND INSTRUMENTATION

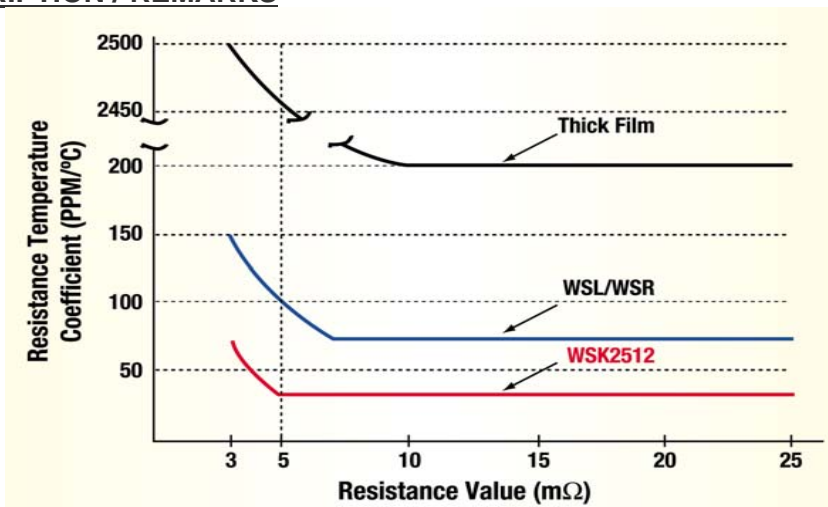
[MEDICAL](#)

- IMPLANTABLES AND INSTRUMENTATION

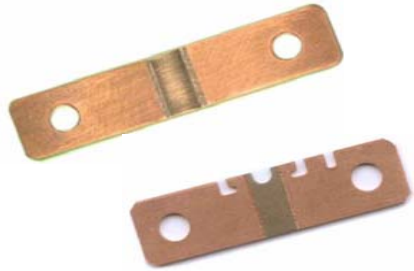
[AMS](#)

- DC / DC AND POWER MANAGEMENT

DESCRIPTION / REMARKS



WSBS AND WSMS – AUTOMOTIVE BATTERY AND ELECTRONIC POWER METER SHUNTS



FEATURES

- HIGH CURRENT SHUNTS (1000 AMPS)
- RESISTANCE RANGE: 0.00005 OHMS to 0.001 OHM
- RESISTANCE TOLERANCE: 1 % and 5 %

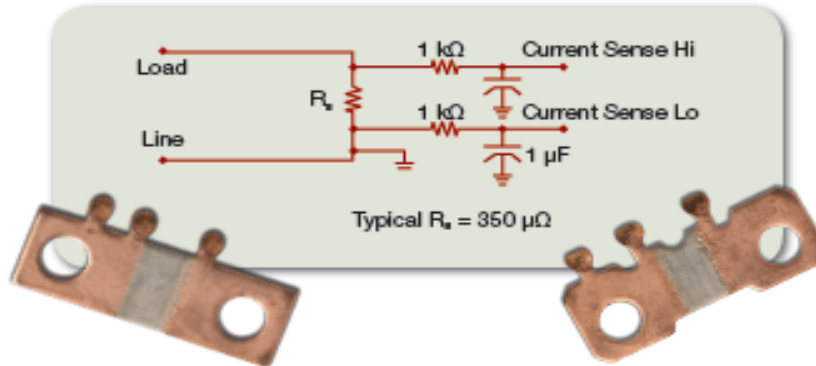


STATUS:	NEW ('08)	
SAMPLES:	2 weeks	
L-TIME:	4 – 6 weeks	
DATA SHEET:	Released	YES
	On WEB	YES
BUD-PRICE:	30 to 100.00 \$/100	
Respons.	Smejkal / Rainer	

TARGET APPLICATIONS

AUTO	- BATTERY MANAGEMENT FOR FUEL AND HYBRID / ELECTRIC VEHICLES
TELECOM	
COMP	
CONSUM	
INDUST	- ELECTRONIC POWER METERS (SINGLE- AND THREE-PHASE CONTROLLERS), PORTABLE POWER GENERATORS
MEDICAL	
AMS	

DESCRIPTION / REMARKS



MILITARY / SPACE / MEDICAL QUALIFIED RESISTORS



FEATURES

- QUALIFIED TO 11 MILITARY SPECIFICATIONS
- PRODUCTS AVAILABLE BEYOND QPL RANGE
- MEET MANY DSCC DRAWINGS
- ENGINEERING SUPPORT FOR SPECIAL DESIGNS

STATUS:	PUSH ('08)	
SAMPLES:	2 weeks	
L-TIME:	6 – 12 weeks	
DATA SHEET:	Released	YES
	On WEB	YES
BUD-PRICE:	15 TO 1000 \$/100	
Respons.	Smejkal / Rainer	

TARGET APPLICATIONS

[AUTO](#)

[TELECOM](#)

[COMP](#)

[CONSUM](#)

[INDUST](#)

- HARSH ENVIRONMENTS INCLUDING DRILLING, DEEP EARTH, AND OCEAN EXPLORATION

[MEDICAL](#)

- INSTRUMENTATION AND IMPLANTABLES

[AMS](#)

- AVIONICS, SATELLITES, RADAR, SPACE, SURVEILLANCE, WEAPONRY

Military Qualifications

Film / Foil Technology

MIL-R-10509	Leaded Metal Film Resistor, Type RN
MIL-PRF-22684	Leaded Metal Film Resistor, Type RL
MIL-PRF-39017	Leaded Metal Film Resistor, E-Rel Type RLR
MIL-PRF-55182	Leaded Metal Film / Foil Resistors, E-Rel Type RNC / RNR / RNN
MIL-PRF-55342	Thick Film / Thin Film Chip Resistor, E-Rel Type RM

Wirewound Technology

MIL-PRF-26	Leaded Wirewound Resistor, Type RW
MIL-PRF-18546	Housed Wirewound Resistor, Type RE
MIL-PRF-39007	Leaded Wirewound Resistor, E-Rel Type RWR
MIL-PRF-39009	Housed Wirewound Resistor, E-Rel Type RER
MIL-PRF-49465	Leaded Metal Element, Type RLV

Networks

MIL-PRF-83401	Thick Film / Foil Resistor Network, Type RZ
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