

Production Part Approval

AEC-CDF- Passive Component Qualification

Vishay Test Report # 106661

SUPPLIER - Vishay-Columbus		Uncoated Resistor Evaluation									
NAME OF LABORATORY - Vishay Dale Electronics Test Lab		PART NAME -WSL-2512 .2 Ohm Surface Mount Wirewound Resistor									
DESCRIPTION	TEST CONDITIONS	LIMIT	QTY. TESTED	HOURS/ CYCLES	RANGE			MEAN	STD. DEV.	CPK	PASS
Temperature Cycling	MIL-STD-202 Method 107, Dwell time = 15min, 1000 Cycles. -55°C to +125°C	$\pm (0.5\% + 0.0005\Omega)$	24	1000	-0.0700	TO	0.0750	-0.0419	0.0315	7.493	PASS
Moisture Resistance	MIL-STD-202, Method 106, t=24 hours/cycle. Note: Steps 7a & 7b not required, 0% power, No Polo, 65°C, Measurement at 24± 2 Hrs after test.	$\pm (0.5\% + 0.0005\Omega)$	24		-0.0250	TO	0.0300	-0.0085	0.0135	18.309	PASS
Biased Humidity	MIL-STD-202, Method 103,1000 hrs 85°C/85%RH. Note: Specified conditions: 10% of rated power. Measurement at 24± 2 hrs after test.	$\pm (0.5\% + 0.0005\Omega)$	24	1000	-0.0550	TO	-0.0250	-0.0433	0.0069	34.140	PASS
Operational Life 125°C	MIL-STD-202 Method 108 (Ambient 125C)	$\pm (1.0\% + 0.0005\Omega)$	24	1000	0.0550	TO	0.1600	0.0975	0.0259	14.833	PASS
Short Time Overload	MIL-PRF-55342 paragraph 4.86: 5 X rated power for 5 Seconds	$\pm (0.5\% + 0.0005\Omega)$	24		-0.3450	TO	0.0950	-0.0592	0.1144	2.013	PASS
Low Temperature Storage	MIL-PRF-26 Paragraph 4.7.12	$\pm (0.5\% + 0.0005\Omega)$	24		-0.0100	TO	0.4110	0.0455	0.1229	1.911	PASS