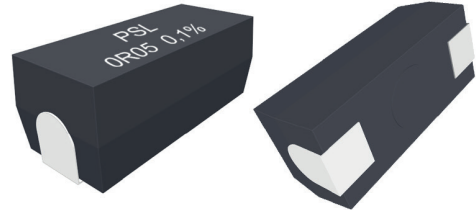


PSL - Series

SMD Current Measuring Wire - Wound Resistors

FEATURES

- Resistance from 0,005Ω
- Flame Withstanding Design
- Moisture Resistant Epoxy Body
- Excellent Pulse Handling Capabilities
- Flexible Connecting Leads
- RoHS - compliant



RATED VALUES (IEC 60115-1)

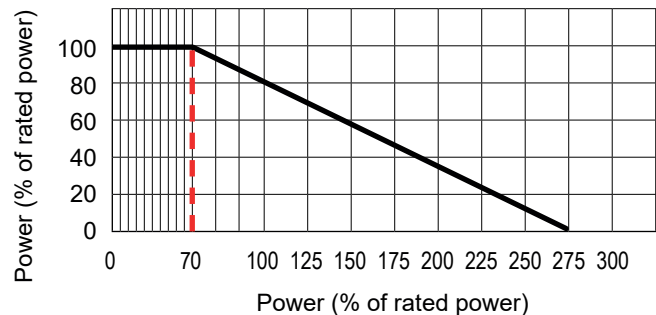
Resistance Range	Ω	0,005Ω to 0,1Ω
Resistance Tolerance	%	±1,0%; ±5,0%
Temperature Coefficient	ppm/°C	±200ppm/°C, other on request
Working Voltage (U _{max})	V	$\sqrt{P \times R}$
Insulation Resistance (R _{ins})	Ω	1GΩ
Operating Temperature Range (T)	°C	-55°C - 275°C

Type	Power (W)	Tolerance- /Resistance Range	
		±1,0%	±5,0%
PSL2615	1	0,005Ω - 0,01Ω	0,005Ω - 0,01Ω
PSL4525	2	0,005Ω - 0,1Ω	0,005Ω - 0,1Ω

CONSTRUCTION

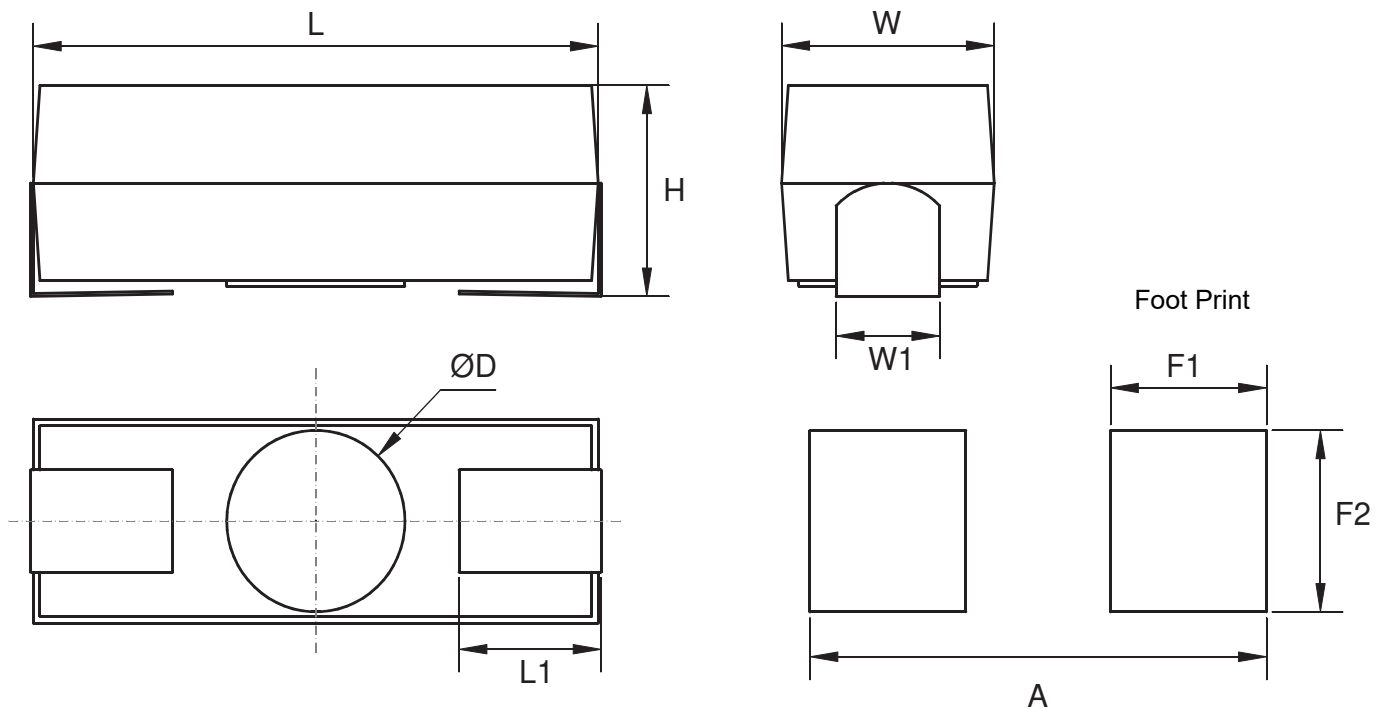
Resistance Material	Wire, Special Alloy
Winding	Wire Windings on Ceramics
Coating	Epoxy Moulding
Lead Wires	Tin Plated Copper Wire

POWER DERATING CURVE



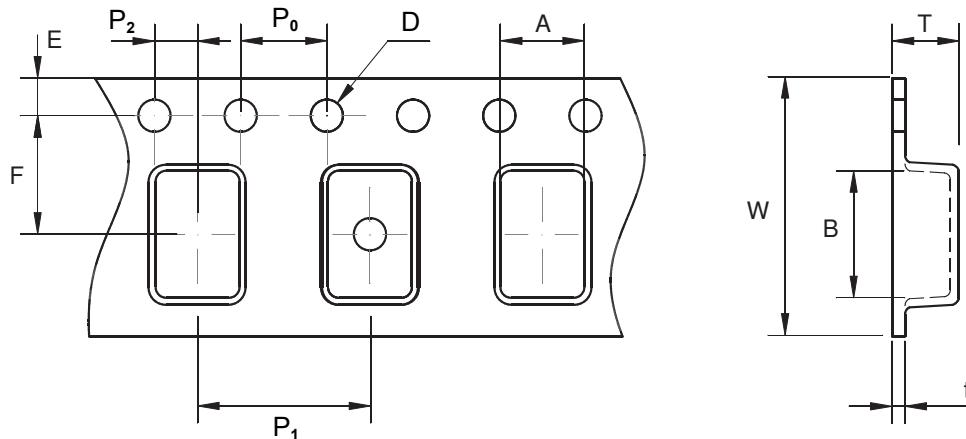
PERFORMANCE

IEC 60115-1	Test	Conditions of Test	Specification ΔR
4.23	Moisture Resistance	+85°C, 85% R.H., Rated Voltage, 1000h	$\pm(0,5\% R + 0,05\Omega)$
4.19	Thermal Shock	-55°C 15 Minutes, +150°C 15 Minutes, 5 Cycles	$\pm(0,5\% R + 0,05\Omega)$
4.6	Dielectric Strength	U_{ins} 500 V, 1 Minute	1G Ω
4.13	Short Time Overload	5 x Rated Voltage U_{max} , 5s	$\pm(0,2\% R + 0,05\Omega)$
4.25	Endurance	+70°C, U_{max} 1,5h „ON“ and 0,5h „OFF“, 2000h	$\pm(1,0\% R + 0,05\Omega)$
4.22	Vibration	Frequency 10Hz to 500Hz, in x,y,z Direction	$\pm(0,1\% R + 0,05\Omega)$
4.16	Shock	5 Impulses at 100g für 5ms	$\pm(0,5\% R + 0,05\Omega)$
4.18	Soldering Resistance	260°C, max. 10s	$\pm(0,5\% R + 0,05\Omega)$

DIMENSIONS


	L	H	W	W1	L1	D	A	F1	F2
PSL2615	6,8 ±0,4	3,5 ±0,4	4,2 ±0,4	1,8 ±0,4	1,8 ±0,4	3,0 ±0,2	8,5 ±0,4	2,5 ±0,4	4,0 ±0,4
PSL4525	11,4 ±0,4	4,7 ±0,4	6,5 ±0,4	2,8 ±0,4	2,5 ±0,4	4,6 ±0,2	14,0 ±0,4	4,0 ±0,4	5,0 ±0,4

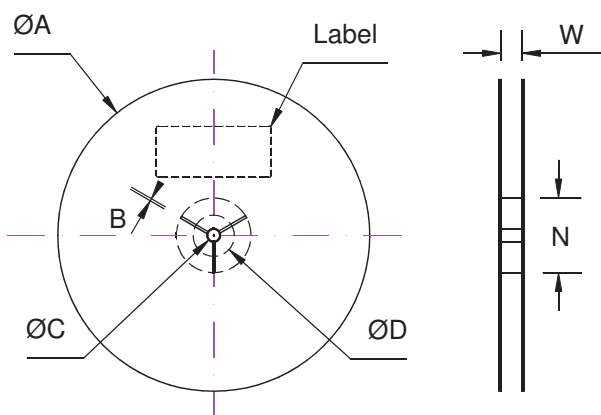
All Dimensions in mm



	W	A	B	T	P ₀	P ₁	P ₂	E	F	t	D
PSL2615	16,0 ±0,2	4,30 ±0,1	7,70 ±0,1	3,80 ±0,1	4,0 ±0,1	8,20 ±0,1	2,0 ±0,1	1,75 ±0,1	7,50 ±0,1	0,6 max.	1,5 +0,1/-0,0
PSL4525	24,0 ±0,2	6,73 ±0,1	12,32 ±0,1	5,08 ±0,1	4,0 ±0,1	12,0 ±0,1	2,0 ±0,1	1,75 ±0,1	11,5 ±0,1	0,6 max.	1,5 +0,1/-0,0

(IEC 60286-3, EIA 481 compliant) All Dimensions in mm

TAPE & REEL DIMENSIONS



Rolle	A	B	C	D	N	W
178,0 7"	178 ±1,5	2,5 ±0,1	12,75 +0,15	21,8 ±1,0	60,0 +1,0	12,0 +0,5
	178 ±1,5	2,5 ±0,1	12,75 +0,15	21,8 ±1,0	60,0 +1,0	16,0 +0,5
	178 ±1,5	2,5 ±0,1	12,75 +0,15	21,8 ±1,0	60,0 +1,0	24,0 +0,5
	178 ±1,5	2,5 ±0,1	12,75 +0,15	21,8 ±1,0	60,0 +1,0	32,0 +0,5
330,0 13"	330 ±1,5	2,5 ±0,1	12,75 +0,15	21,8 ±1,0	79,0 +1,0	12,0 +0,5
	330 ±1,5	2,5 ±0,1	12,75 +0,15	21,8 ±1,0	79,0 +1,0	16,0 +0,5
	330 ±1,5	2,5 ±0,1	12,75 +0,15	21,8 ±1,0	79,0 +1,0	24,0 +0,5
	330 ±1,5	2,5 ±0,1	12,75 +0,15	21,8 ±1,0	79,0 +1,0	32,0 +0,5

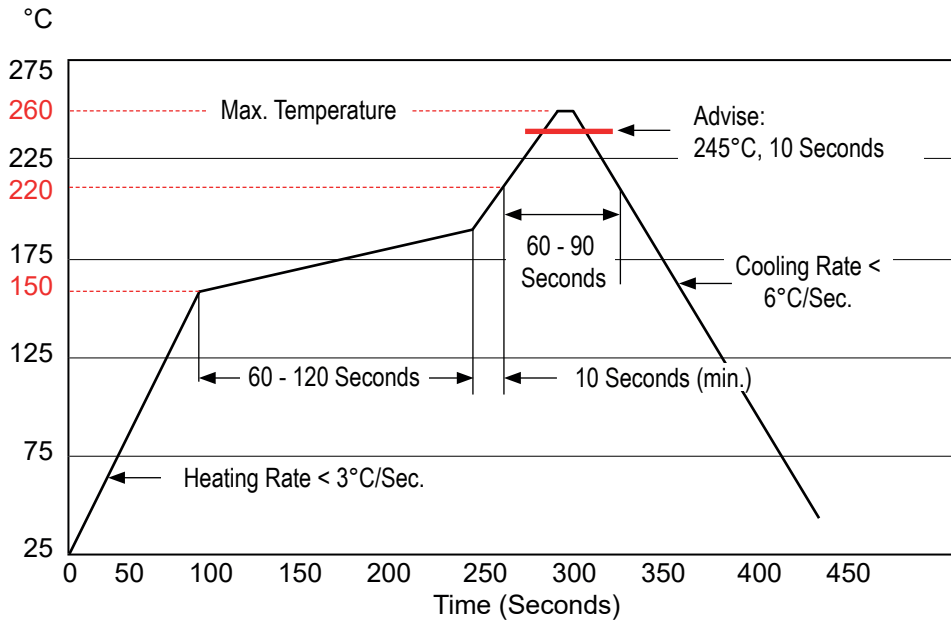
All Dimensions in mm

PACKAGING QUANTITIES

Rolle	PSL2615	PSL4525
178mm	600	250
330mm	2000	1000

Packaging of reels according to MSL - 2 (30 ° C / 60% r.H.), indicators are included.

SOLDERING RECOMMENDATIONS



- Remark: The reflow soldering profile is a recommendation based on EN 61760-1, system and environmental specific, critical influences are not taken into account. Resistors of a closer precision range (resistance tolerance $< 0.1\%$ in combination with resistance values $\leq 1\Omega$) should be hand-soldered by trained personnel, otherwise a change of nominal values (drift) can occur.

ORDERING INFORMATION

PSL2615 0R0050 1% TK20 T (PSL2615; 0,005Ω; $\pm 1\%$; $\pm 200\text{ppm}/^{\circ}\text{C}$; Tape on Reel)

Type	Resistance Value	Tolerance	Temperature Coefficient	Power	Option	Packaging
PSL2615	0R0050 ... 0R1000	1,0% 5,0%	TK200	-	-	T (Tape&Reel) B (Bulk)