R1-129

High Stability Leaded Resistor

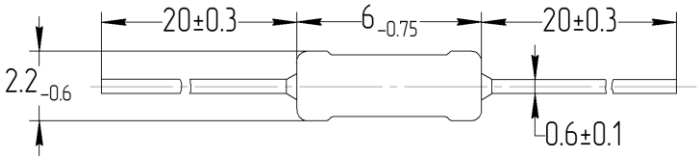
FEATURES

- 0.5% after 1000 h
- 2 % after 70000 h

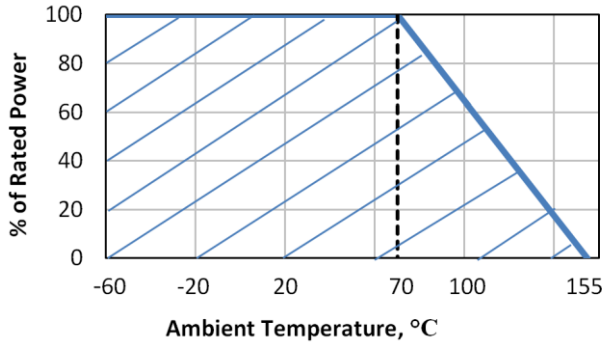
GENERAL SPECIFICATIONS

Operating Temp. Range:		-60 °C to 155 °C
Load Life 70 °C/ 1000 h:	for tol. 0.5 %	0.5 %
	for tol. 1 %	1 %
Max. Resistance Change at Rated Dissipation |ΔR/R max.| after 70000 h		2 %
Package:		Leaded
Process:		Metal Film
Substrate Material:		85 % Al_2O_3
Coating:		Enamel
Termination Finish:		Sn-Pb

Size	Power (W)	Resistance Value, E192 Series (Ohms)	Resistance Tolerance (± %)	Max. Operating Voltage (V)	Temperature Coefficient (ppm/°C)
0207	0.125	10-98.8 100-2.21M	1, 0.5	200	±150 ±150, ±75



Dimensions in mm
Mass 0.15 g



PART NUMBER CODE

R1-129	1001	D	1
model	value 10R0 = 10 Ω 2214 = 2.21 MΩ	tolerance D = 0.5 % F = 1 %	TC 1 = 75 ppm 2 = 150 ppm

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PERFOMANCE CHARACTERISTICS

Test	Condition	ΔR max.
Robustness of termination	IEC60115-1 (4.16)/ IEC 60068-2-21 Bending; Tensile	± 0.5 %
Solderability	IEC60115-1 (4.17)/ IEC 60068-2-20 (235±5) °C; 2 s; solder bath method; SnPb40	Good tinning (>95 % covered, no visible damage)
Resistance to soldering heat	IEC60115-1 (4.18.2)/ IEC 60068-2-20 (260±5) °C; (10±1) s	± 0.5 %; no visible damage
Rapid change of temperature	IEC60115-1 (4.19)/ IEC 60068-2-14 30 min at -60 °C; 30 min at 155 °C; 5 cycles	= tolerance
Vibration	IEC60115-1 (4.22)/ IEC 60068-2-6 32 sweep cycles per direction; 100 Hz to 2000 Hz; 2 mm; 200 m/s^2	± 0.5 %
Low air pressure	IEC60115-1 (4.23.5)/ IEC 60068-2-13 67 Pa; 30 min; 15 °C to 35 °C	No visible damage
Damp heat, steady state	IEC60115-1 (4.24)/ IEC 60068-2-78 (40±2) °C; 56 days; (93±3) % RH	= tolerance

All tests are carried out in accordance with the following specifications:

- IEC 60115-1 (clause),
- IEC 60068-2-xx (test method).

PACKAGING

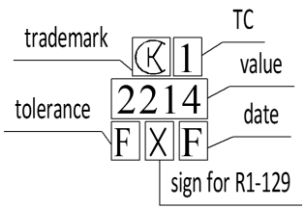
Carton box.

MOUNTING PROCEDURE

Can be used only in manual assembly techniques.

MARKING

Nominal value (E24)	Marking
10 Ω to 98.8 Ω	10R0 to 98R8
100 Ω to 988 Ω	1000 to 9880
1 KΩ to 9.88 KΩ	1001 to 9881
10 KΩ to 98.8 KΩ	1002 to 9882
100 KΩ to 988 KΩ	1003 to 9883
1 MΩ to 2.21 MΩ	1004 to 2214



Date																				
2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2006	2027	2028	2029
A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W	X