

THICK FILM SIP NETWORKS

CL SERIES - Low Profile C SERIES - High Power

← High density 70-mil pin spacing, an RCD exclusive!

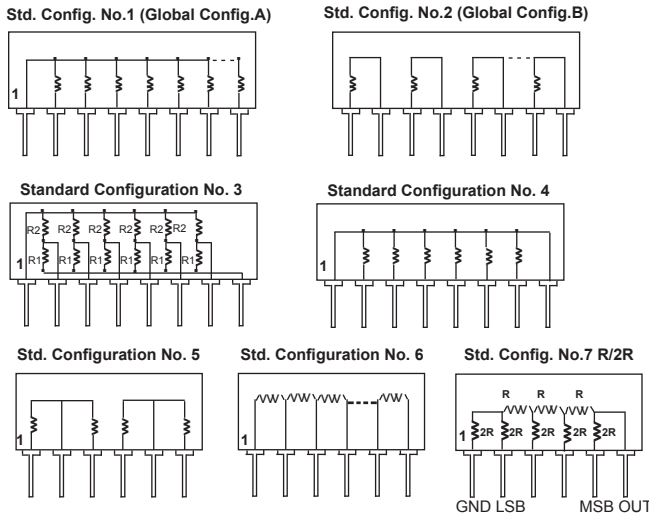
- Low cost! Widest selection in the industry!
- Low profile CL Series available from stock (config. 1 & 2, 6-pin, 8-pin, and 10-pin)
- Wide resistance range: 10Ω to 3MΩ
- Available on tape & reel
- 4-pin through 14-pin standard (2 through 20-pin available)
- R/2R Ladder Networks (Config. 7) offer 1/2LSB accuracy from 4 to 10 bits



Term.W is Pb-free and RoHS compliant

- OPTION V** - +200°C temperature Range
- OPTION S** - Super high density (.070" pin spacing)
- OPTION P** - Pulse tolerant design
- OPTION N** - Narrowline design (.070" thick)
- OPTION F** - Flameproof coating
- OPTION C** - Copper alloy terminals
- Available in custom circuits with multiple values/capacitors/diodes, increased power & voltage, tolerance & TC matching, longer pins, special marking, military screening, resis. values 1Ω to 1000M, etc.

STANDARD CONFIGURATIONS



STANDARD VALUES- Config. 1, 2, 4, 5, 6:

 22Ω to 1M* in E-24 values (preferred values in bold type)-
10, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33, 36, 39, 43, 47,
 51, **56, 62, 68, 75, 82, 91** *non-standard values 10Ω to 3M avail.

STANDARD VALUES - Config. 3, Dual Terminator, R₁/R₂

81Ω/130Ω	160Ω/260Ω	220Ω/270Ω	330Ω/470Ω
120Ω/195Ω	162Ω/260Ω	220Ω/330Ω	330Ω/680Ω
121Ω/195Ω	180Ω/390Ω	330Ω/390Ω	3KΩ/6.2KΩ

R/2R LADDER NETWORKS (Config. 7): 4Bit/6-pin, 5Bit/7-pin, 6Bit/8-pin, 7Bit/9-pin, 8Bit/10-pin, 9Bit/11-pin, and 10Bit/12-pin. Available in Series C (low profile Series CL n/a). Linearity accuracy is 1/2LSB. Standard values are 5KΩ, 10KΩ, 25KΩ, 50KΩ, & 100KΩ ±2%.

P/N DESIGNATION:

CL= low profile (std), C= high power

Number of Pins **08**

Configuration Number **2**

Options: V, S, P, N, F, C (leave blank if std)

Resis. Code 1%: 3 signif. figures & multiplier, (e.g. 10R0=10Ω, 1000=100Ω, 1001=1K, 1004=1M)

Resis. Code 2%-5%: 2 signif. figures & multiplier, (e.g. 100=10Ω, 101=100Ω, 102=1K, 103=10K, 104=100K, 105=1M). When comprised of 2 res. values (config. 3&7) separate with /, e.g. 181/391=180Ω/390Ω; use 4-digit code when needed e.g. 1620/261=162Ω/260Ω

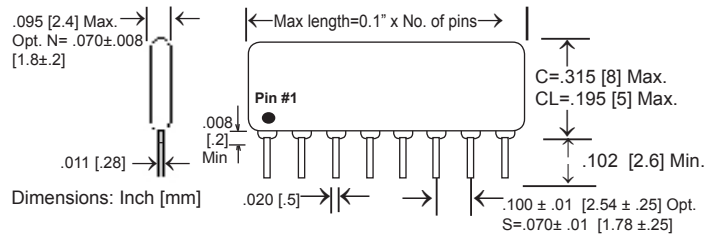
Tolerance Code: G=2% (standard), F=1%, J=5%

Packaging: B=Bulk, A3=3 pin taping Ammo pack, M=Magazine Tube

Opt. TC: 50=50ppm, 101=100ppm (leave blank if standard)

Termination: W= RoHS compliant (std), Q= Tin/Lead (leave blank if both acceptable)

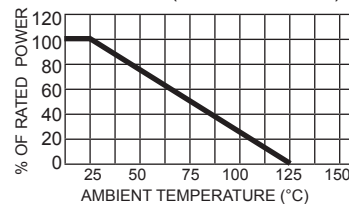
DIMENSIONS



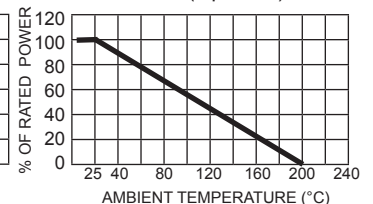
RCD Type	SINGLE RESISTOR POWER RATING*			PACKAGE POWER RATING*						
	Config. 1,3,4,5,6	Config. 2	Config. 3, 7	4-Pin	6-Pin	7-Pin	8-Pin	9-Pin	10-Pin	12-Pin
C	.3W	.5W	.17W	1W	1.5W	1.75W	2W	2.25W	2.5W	3W
CL	.2W	.3W	.125W**	.5W	1W	1.25W	1.5W	1.75W	2W	2.5W

* 25 deg C. Reduce wattage ratings by 1/3 for Opt.S **Config. 7 n/a in CL Series

DERATING (Series C and CL)



DERATING (Option V)



TYPICAL PERFORMANCE SPECIFICATIONS

Standard Tolerance	2% ≥100Ω, 5% <100Ω (1% avail.)
Temperature Coefficient	±100ppm typ (±250ppm <50Ω & >2.2M)
TCR Tracking	50PPM typical
Operating Temperature	-55°C to +125°C (+200°C Opt.V)
Max. Working Voltage	200V Series C, 100V Series CL & Opt.S
Short Time Overload	±0.5% (2.5x rated V, 5S, nte 2xW)
Resistance to Solder Heat	±0.25% (350°C, 5S)
Moisture Resistance	±1%
Terminal Strength	±0.25%
Thermal Shock	±0.5%
Load Life (1000 hours)	±1.0%
Temperature Cycling	±0.5%
Shock and Vibration	±0.25%
Lead Solderability	Meets MIL-R-83401
Marking*	Pin #1 ID, resis value, & tol as minimum*
Terminals	Solder plated steel typ., copper alloy avail**

*Parts may be marked with Std or Global configuration code

** RCD recommends use of copper alloy terminals (opt. C) in aqueous cleaning systems