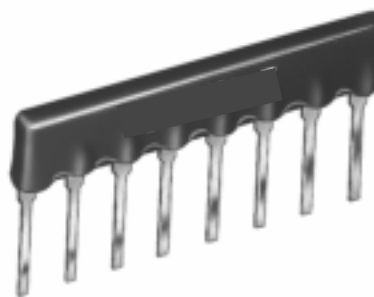


THICK FILM CONFORMAL COATED LOW PROFILE SIP NETWORK

 ISO-9001
Registered


CL SERIES

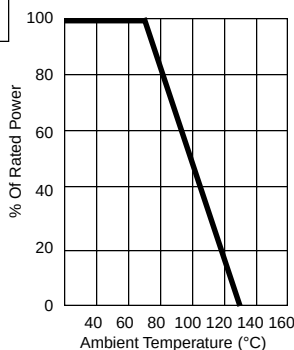
- 4 through 11 pin packages
- Project 0.20 in. from circuit board
- Circuits -1 and -3 are standard



SPECIFICATIONS:

Physical		Environmental Per MIL-R-83401		Electrical	
Element:	Fused thick-film composition	Short Time Overload:	±0.5%	Resistance Range (ohms):	22 to 1.0M
Substrate:	96% alumina	Terminal Strength:	±0.5%	Resistance Tolerance:	±1%, ±2%, ±5%
Body:	Conformal coated	Resistance to Solder Heat:	±0.5%	Temperature Coefficient:	±100 ppm/°C (1% Tol.), ±200 ppm/°C
Terminals:	Solder plated steel	Moisture Resistance:	±2%	Max. Continuous Working Voltage:	100V
Lead Pull:	2.2 pounds	Load Life:	±2%	Operating Temperature:	-40°C to 125°C
Lead Solderability:	MIL-STD-202, method 210, cond. A	Temperature Cycling:	±0.5%		
Resistance to Soldering Heat:	MIL-STD-202, method 210, cond. A				
Marking Resistance to Solvents:	MIL-STD-202, method 215				

POWER DERATING:



STANDARD RESISTANCE (OHMS):

22	150	1K	6.8K	47K	330K
27	180	1.2K	8.2K	56K	390K
33	220	1.5K	10K	68K	470K
39	270	1.8K	12K	82K	560K
47	330	2.2K	15K	100K	680K
56	390	2.7K	18K	120K	820K
68	470	3.3K	22K	150K	1M
82	560	3.9K	27K	180K	
100	680	4.7K	33K	220K	
120	820	5.6K	39K	270K	

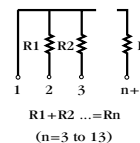
POWER RATING AT 70°C

Cir. Type	One Elem.	Maximum Power In One Network (watts)								
		4 Pin	5 Pin	6 Pin	7 Pin	8 Pin	9 Pin	10 Pin	11 Pin	14 Pin
-1	0.125	0.375	0.5	0.625	0.75	0.875	1	1.05	1.15	1.45
-3	0.250	0.500	-	0.750	-	1	-	1.05	-	1.45

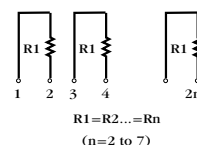
DIMENSIONS (Inches and (mm)):

Front marking dot indicated direction of Pin No.1		No. of Pins	L Max. Inches (mm)
	1000ΩJ Pin No.1 .100±.008 (2.54±.02) .048±.008 (1.2±.02) .0197±.004 (0.5±.01) .0197±.004 (0.5±.01)	4	0.4 (10.16)
		5	0.5 (12.7)
		6	0.6 (15.24)
		7	0.7 (17.78)
		8	0.8 (20.32)
		9	0.9 (22.86)
		10	1.0 (25.40)
		11	1.1 (27.94)
		12	1.23 (31.00)
		13	1.33 (33.68)
		14	1.40 (35.56)

STANDARD CIRCUITS: CIRCUIT 1 Bussed



CIRCUIT 3 Isolated



HOW TO ORDER:

When ordering R_2R_1 specify the value of R_1 (The 3 circuits will be marked with a letter 'S' preceding the resistance value)

Sample Part No.

CL 10 3 01 223 G

IRC Type

No. of Pins
(4 through 11)

Circuit Type (1 & 3)

Characteristic

Code	Classification	TCR
01	Commercial Grade	±100 ppm/°C
20	Commercial Grade	±200 ppm/°C

Resistance Range

For circuits 1 or 3, 2 digit range and digit multiplier

Tolerance

F=1%, G=2%, J=5%

Front marking dot indicates direction of Pin No.1

For 1% tol. use 4 digit mil