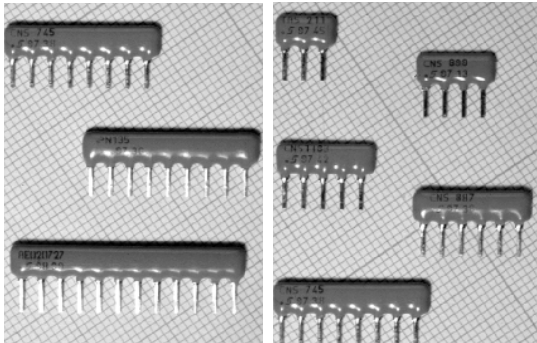




# CNS

## thin film semi custom precision resistor networks – single in line

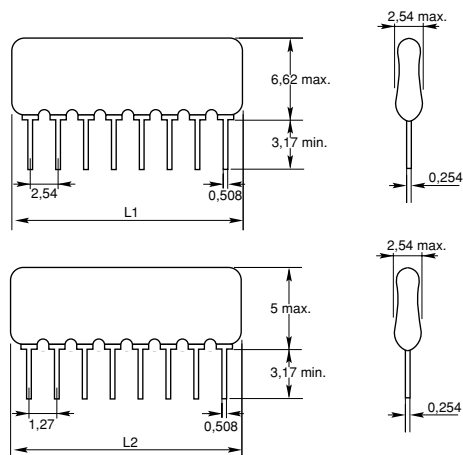


They can be delivered in a very short period of time with no NRE. A lot of different configurations are available. On a given network it is possible to get different ohmic values, the ratio between the largest and the smallest ones can be as high as 200 (or even more).

The main features of these networks are :

- **SHORT DELIVERY TIME - NO NRE**
- **HIGH VERSATILITY**
- **LOW TCR <  $\pm 15$  ppm/°C**
- **EXCELLENT T.C.R. TRACKING < 2 ppm/°C**
- **LOW NOISE < -40 dB**
- **HIGH STABILITY**

### CNS

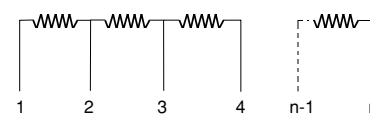


Pin count	3	4	5	6	7	8	9	10	11	12
L1 max.	8,14	10,68	13,23	15,78	18,32	20,87	23,40	25,95	28,5	31
L2 max.	5,5	6,8	8	9,3	10,6	11,9	13,2	14,4	15,7	17

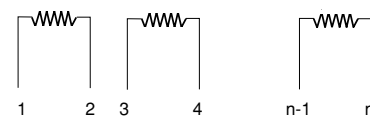
Dimensions in mm

### ELECTRICAL DIAGRAM\*

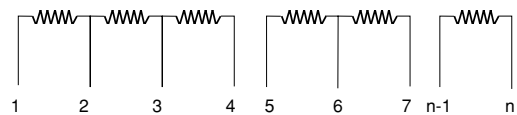
#### Chain of resistors



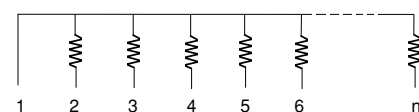
#### Isolated resistors



#### Several groups of resistors



#### Resistors with one common



\*Please, contact SFERNICE for other configurations. We should have a solution to your problem.

Thin film

### SPECIFICATIONS

#### MECHANICAL

SUBSTRATE... alumina  
RESISTIVE ELEMENT... passivated nichrome  
TERMINAL LEADS... Sn Pb on Cu alloy

#### ELECTRICAL

OHMIC VALUE RANGE... from 100  $\Omega$  to 30 M $\Omega$   
ABSOLUTE TOLERANCE...  $\pm 0,1$  %  
TOLERANCE RATIO... 0,05 %  
POWER DISSIPATION... 0,02 % on request  
100 mW per resistor at +70°C  
derated to zero at +155°C  
VOLTAGE COEFFICIENT... < 0,002 ppm/V  
NOISE... < -35 dB typical

#### CLIMATIC

OPERATING TEMPERATURE RANGE... -55°C +155°C

#### TEMPERATURE COEFFICIENT

	Standard	On request
ABSOLUTE	$\pm 15$ ppm/°C max.	$\pm 5$ ppm/°C
TRACKING	< 2 ppm/°C	< 1 ppm/°C