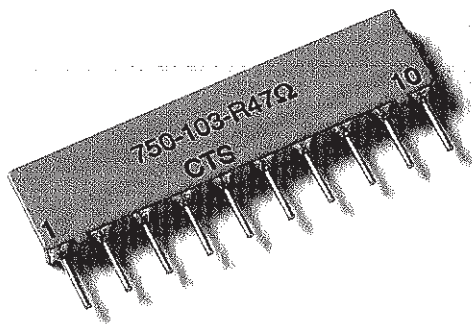


# SINGLE - IN - LINE



## Solid Ceramic Machine Insertable SIP Networks

CTS' solid ceramic construction withstands thermal shock during soldering and extended thermal cycling. This is possible because CTS' networks are constructed of a solid piece of ceramic, with a single thermal coefficient of expansion.

- Compact edge mount modules
- Ultra high stability and reliability
- .100" lead spacing
- Alumina substrate
- Application specific circuits available

### Resistance Range:

Standard: 22Ω to 1 MegΩ  
Special: below 22Ω and above 1 MegΩ

### Resistance Tolerance:

Standard: ±2% or 0.5Ω  
Special: ±0.25%, or 0.25Ω  
(whichever is greater)

### Maximum Operating Voltage:

100V not to exceed rated power

### Temperature Coefficient:

Standard: 100Ω to 1 MegΩ  
±100PPM/°C typical  
10Ω to 99Ω  
±200PPM/°C typical  
Tracking: Available to 50PPM/°C with same formulation and on same side of substrate.

### Operating Temperature Range:

-55°C to +125°C

### Dielectric Strength:

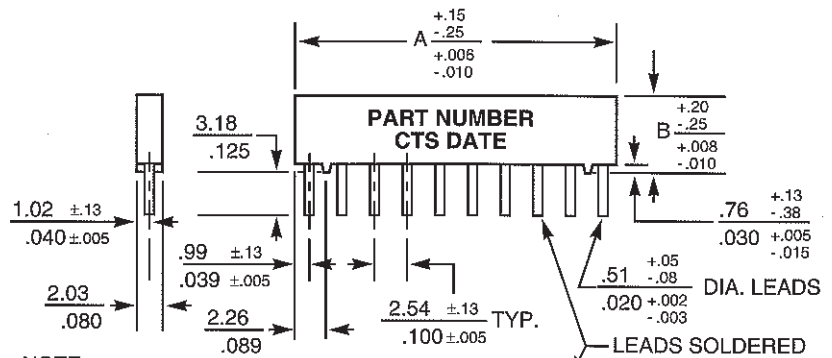
200 VAC

### Resistance Matching (2 like resistors)

Standard: 50Ω to 100Ω: 0.5% or 0.5Ω  
(whichever is greater)  
100KΩ to 1 MegΩ: ±2%

### Ratio Matching

Special: 50Ω to 100Ω: ±1%  
100Ω to 100KΩ: ±0.5%  
100KΩ to 1 MegΩ: ±2%



NOTE:  
INSULATION COATING  
APPLIED ON THE  
TWO FACES ONLY.

B DIM—STANDARD .250 HIGH		PACKAGE POWER	
#Pins	A Dim	@25°C	@70°C
4	9.60/.378	1.0	0.7
5	12.14/.478	1.2	0.8
6	14.68/.578	1.5	1.0
8	19.76/.778	2.1	1.4
9	22.30/.878	2.3	1.5
10	24.84/.978	2.5	1.7
Schematic			
Res. Power	1, 5, 7	.38	.25
Res. Power	3	.6	.4

### NOTES:

1. General Tolerances mm ±0.25  
inch ±0.010
2. Dimensions are mm/in.

B DIM— .350 HIGH		PACKAGE POWER	
#Pins	A Dim	@25°C	@70°C
4	9.60/.378	1.3	0.9
6	14.68/.578	2.1	1.4
8	19.76/.778	2.7	1.8
10	24.84/.978	3.3	2.2
11	27.38/1.078	3.5	2.3
12	29.45/1.178	3.7	2.5
Schematic			
Res. Power	2, 6, 8	.45	.3
Res. Power	4	.6	.5

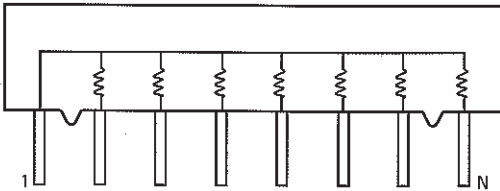
Application notes are found on pages 20 - 21. Power Derating, Packaging and Environmental Performance Specifications are found on pages 31- 35.



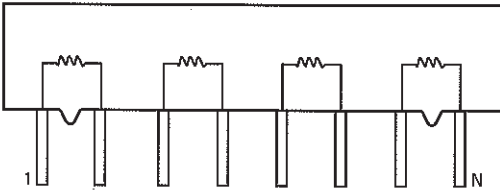
CTS RESISTOR NETWORKS • 406 PARR ROAD • BERNE, IN 46711 • FAX: (219)589-3243 • <http://www.ctscorp.com>

# SERIES 750

**Bussed CTS Schematic #1 – .250 High  
Schematic #2 – .350 High**

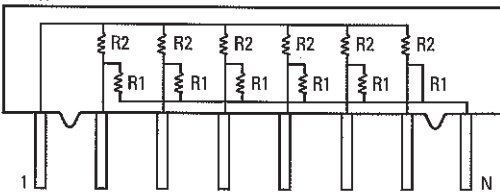


**Isolated CTS Schematic #3 – .250 High  
Schematic #4 – .350 High**

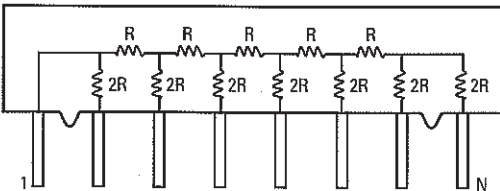


Not Available  
in 5, 7, 9, 11 Pins

**Dual Terminator CTS Schematic #5 – .250 High  
Schematic #6 – .350 High**



**R/2R Ladder CTS Schematic #7 – .250 High  
Schematic #8 – .350 High**



(Ohms)	(Ohms)
10	3900
12	4700
15	5600
18	6800
22	8200
27	10000
33	11000
39	12000
47	15000
56	18000
68	22000
82	27000
100	33000
120	39000
150	47000
180	56000
220	68000
270	82000
330	100000
390	110000
470	120000
560	150000
680	180000
820	220000
1000	270000
1100	330000
1200	390000
1500	470000
1800	560000
2200	680000
2700	820000
3300	1000000

## How to Order Series 750 Networks

Custom networks are marked with either a customer part number or a non-descriptive CTS part number. Send documentation to CTS Sales Office giving schematic, resistor values and tolerance, and other non-standard information. See page 20 for custom network information.

See page 31 for part marking information.

**750**

**10**

**3**

**R**

**4.7K**

Series 750

Number of Pins

Prefix

Resistance Value

Schematic	1 Bussed (.250 High)	2 Bussed (.350 High)	3 Isolated (.250 High)	4 Isolated (.350 High)	5 Dual Terminator (.250 High)	6 Dual Terminator (.350 High)	7 Ladder (.250 High)	8 Ladder (.350 High)
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