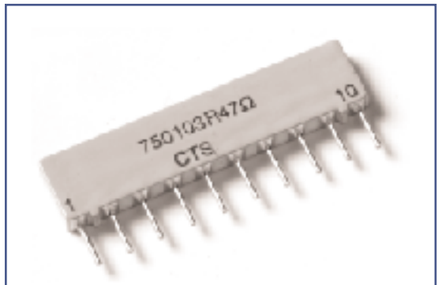
Single-In-Line Series 750



Solid Ceramic Machine Insertable SIP Products

CTS' solid ceramic construction withstands thermal shock during soldering and extended thermal cycling. This is possible because CTS' products 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 are 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

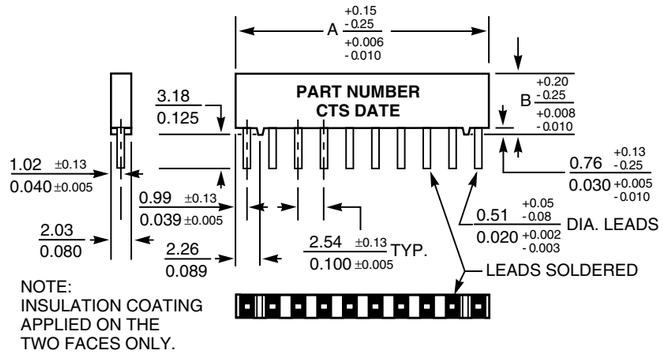
Temperature Coefficient:
Standard: 100Ω to 1 MegΩ
±100PPM/°C typical
10Ω to 99Ω
±200PPM/°C typical
Tracking: Available to 50PPM/°C with same formulation and on same side of substrate.

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%

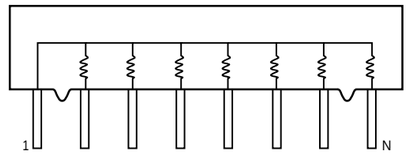


"B" Dim—Standard .250 High			
		Package Power	
#Pins	"A" Dim	@25°C	@70°C
4	9.60/0.378	1.0	0.7
6	14.68/0.578	1.5	1.0
8	19.76/0.778	2.1	1.4
9	22.30/0.878	2.3	1.5
10	24.84/0.978	2.5	1.7
	Schematic		
Res. Power	1, 5, 7	0.38	0.25
Res. Power	3	0.6	0.4

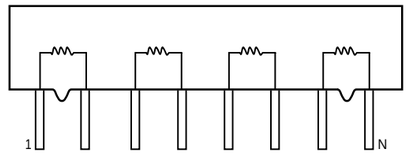
NOTES:
- General Tolerances mm ±0.25 / inch ±0.010
- Dimensions are mm/in.

"B" Dim— .350 High			
		Package Power	
#Pins	"A" Dim	@25°C	@70°C
4	9.60/0.378	1.3	0.9
6	14.68/0.578	2.1	1.4
8	19.76/0.778	2.7	1.8
10	24.84/0.978	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	0.45	0.3
Res. Power	4	0.8	0.5

Bussed CTS Schematic #1 – 0.250 High
Schematic #2 – 0.350 High

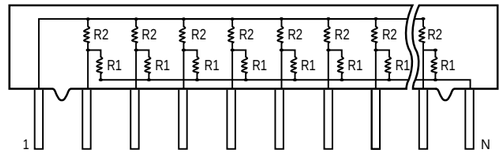


Isolated CTS Schematic #3 – 0.250 High
Schematic #4 – 0.350 High

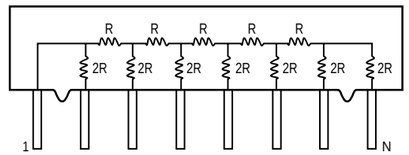


Not Available in 7, 9, 11 Pins

Dual Terminator CTS Schematic #5 – 0.250 High
Schematic #6 – 0.350 High



R/2R Ladder CTS Schematic #7 – 0.250 High
Schematic #8 – 0.350 High



(Ohms)	(Ohms)
10	2700
12	3300
15	3900
18	4700
22	5100
27	5600
33	6800
39	8200
47	10000
51	11000
56	12000
68	15000
82	18000
100	22000
110	27000
120	33000
150	39000
180	47000
200	56000
220	68000
270	82000
330	100000
390	110000
470	120000
510	150000
560	180000
680	220000
820	270000
1000	330000
1100	390000
1200	470000
1500	560000
1800	680000
2000	820000
2200	1000000

How to Order Series 750 Products

Custom products 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 pages 32-33 for custom network information.

750 — Series 750
10 — Number of Pins
3 — Schematic
R — Prefix
4.7K — Resistor Value Schematics 1, 2, 3, 4, 7, 8
Resistor Value Schematics 5, 6
Example 220/330 = 220Ω/330Ω
All standard part numbers are ±2%

Schematic
1 Bussed (0.250 High)
2 Bussed (0.350 High)
3 Isolated (0.250 High)
4 Isolated (0.350 High)
5 Dual Terminator (0.250 High)
6 Dual Terminator (0.350 High)
7 Ladder (0.250 High)
8 Ladder (0.350 High)

NOTE: No dashes or spaces to appear in part number.
Example: 750103R4.7K
See page 45 for part marking information.