

# Surface Mount Series 766 (Narrow Body)



## Narrow Body Design

- Series 766 requires 30% less board space than molded networks of the same power rating
- Packaged in tape and reel or slide packs
- Solid ceramic construction
- Meets EIA PDP 100 SOGN-0001 outline
- No internal dendrite growth
- Application specific circuits are available
- Compatible with all solder processes - Wave, IR reflow, Vapor phase reflow
- Recommended for bottom slide attachment

## Resistance Range:

Standard: 10 Ohm to 1 Meg Ohm

## Resistance Tolerance:

Standard:  $\pm 2\%$  or 0.5 Ohm (whichever is greater)  
 Special: 0.25% or 0.3 Ohm (whichever is greater)

## Maximum Operating Voltage:

50V not to exceed rated power

## Temperature Coefficient:

Standard:  
 100 Ohm to 1 Meg Ohm  
 $\pm 100\text{PPM}/^\circ\text{C}$  typical  
 10 Ohm to 99 Ohm  
 $\pm 200\text{PPM}/^\circ\text{C}$  typical

## Operating Temperature Range:

$-55^\circ\text{C}$  to  $+125^\circ\text{C}$

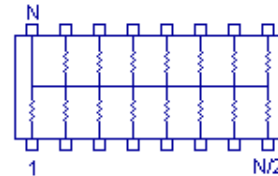
## Dielectric Strength:

100 VAC

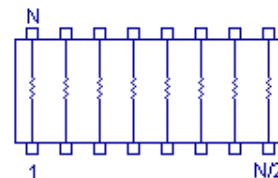
## Power Rating (Total Network Power):

	8 Pin	14 Pin	16 Pin
@25 Deg. Cel.	.9	1.6w	1.8w

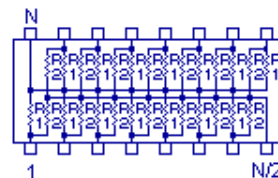
## Bussed CTS Schematic 1



## Isolated CTS Schematic 3

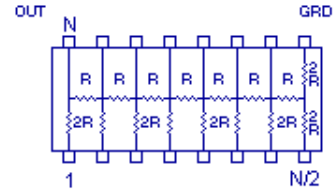


## Dual Terminator CTS Schematic 5



## R/2R Ladder CTS Schematic 7

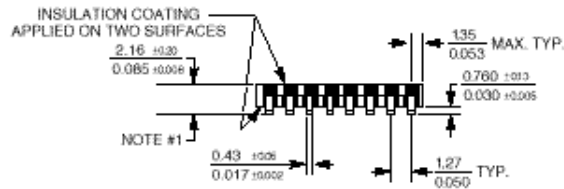
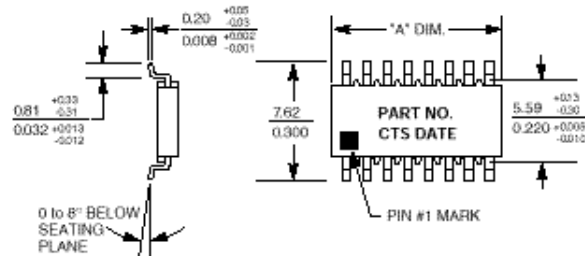
@70 Deg. Cel.	.6	1.0w	1.2w
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**Maximum Resistor Power:**

(Not to exceed total network power)

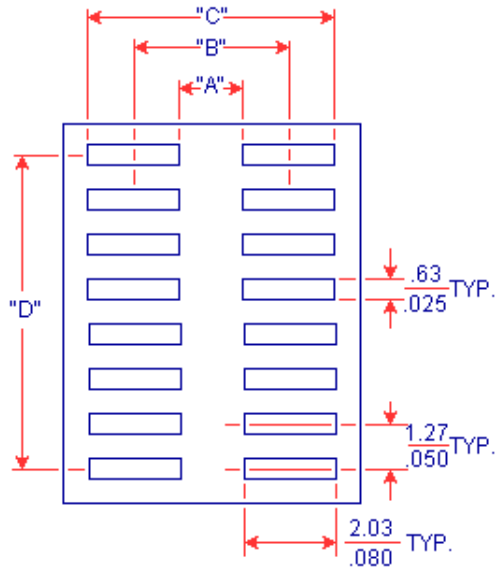
Schematic	1	3	5	7
25 Deg. Cel.	.12w	.24w	.12w	.12w
70 Deg. Cel.	.08w	.16w	.08w	.08w



No. of Pins	"A" Dimension	
	mm	inch
8	4.90 ± .10	.193 ± .004
14	8.65 ± .10	.340 ± .004
16	9.90 ± .10	.390 ± .004
		.005

**NOTES:**

1. Leads to be formed to  $\pm 0.05\text{mm}/\pm 0.002\text{in.}$  PLANARITY
2. mm & inch DIMENSIONS ARE NOT EQUIVALENT
3. General Tolerances are:  
 $\pm 0.25\text{mm}$  &  $\pm 0.010\text{ inch}$

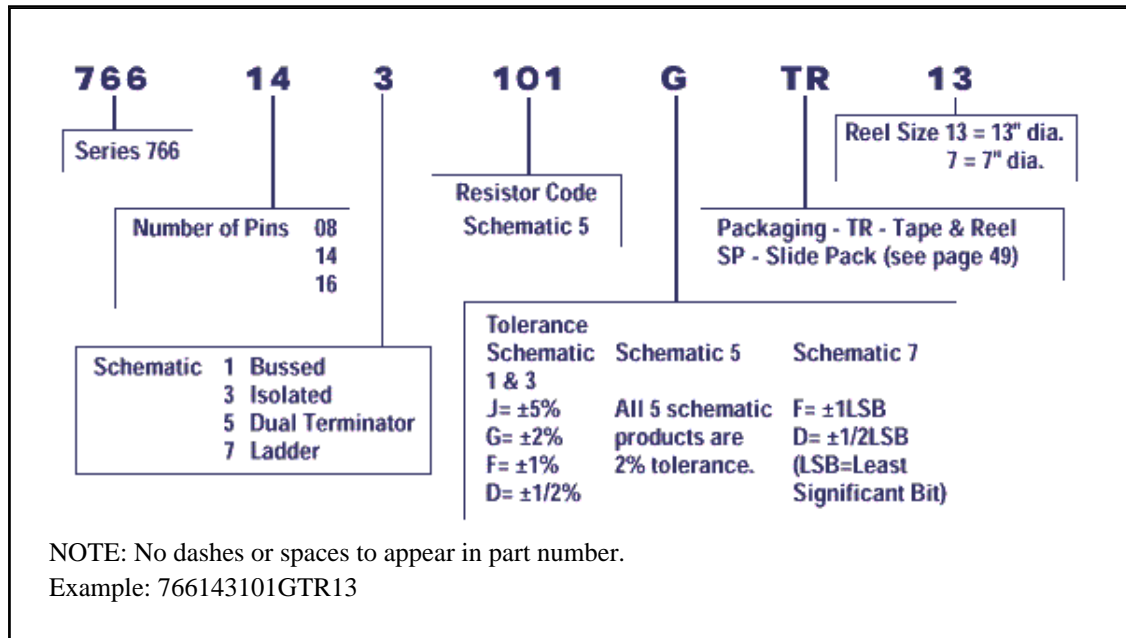


### Recommended Land Pattern

LEAD COUNT		A	B	C	D
8P	mm	3.60	5.60	7.60	5.08
	in.	.140	.220	.300	.200
14P	mm	3.60	5.60	7.60	7.60
	in.	.140	.220	.300	.300
16P	mm	3.60	5.60	7.60	8.90
	in.	.140	.220	.300	.350

### How to Order 766 Products

Application specific custom networks are marked with either a customer part number or a non-descriptive CTS part number. Send documentation to a CTS Sales Office giving schematic, resistor values and tolerance, and other non-standard information.



(Ohms)	(EIA Code)
0*	000X
10	100

(Ohms)	(EIA Code)
3300	332
3900	392

12	120	5100	512
15	150	5600	562
18	180	6800	682
22	220	8200	822
27	270	10000	103
33	330	11000	113
39	390	12000	123
47	470	15000	153
51	510	18000	183
56	560	20000	203
68	680	22000	223
82	820	27000	273
100	101	33000	333
110	111	39000	393
120	121	47000	473
150	151	56000	563
180	181	68000	683
200	201	82000	823
220	221	100000	104
270	271	110000	114
330	331	120000	124
390	391	150000	154
470	471	180000	184
510	511	200000	204
560	561	220000	224
680	681	270000	274
820	821	330000	334
1000	102	390000	394
1100	112	470000	474
1200	122	560000	564
1500	152	680000	684

1800	182	820000	824
2000	202	1000000	105
2200	222		
2700	272		

\*3 ohms max

**Part Marking**  
**Application Notes**  
**CTS Homepage**  
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