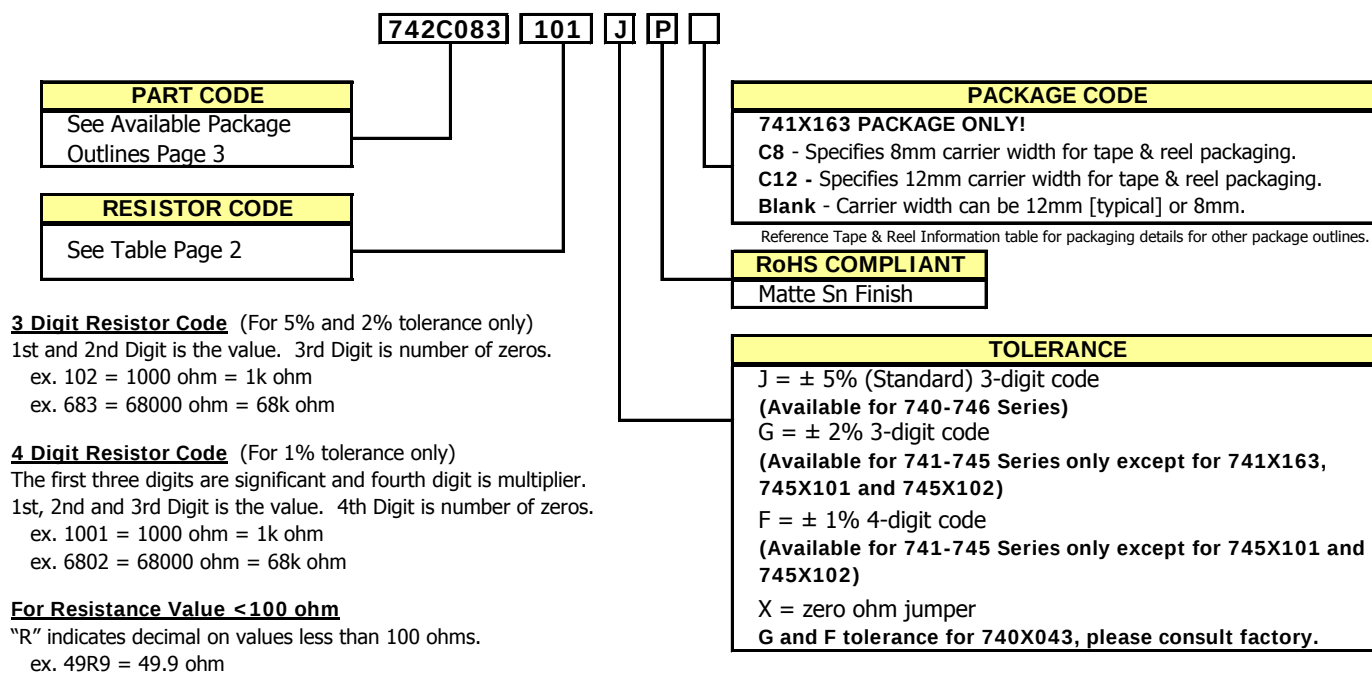


FEATURES

- **Low Cost**
- **Thick Film Technology**
- **High Density Packaging**
 - Up to 30% less space per resistor than 0603 chip resistors
 - Up to 75% less space per resistor than 0805 chip resistors
- Low Profile; can be used in PCMCIA cards
- Leadless Surface Mount Construction
- Concave or Convex Terminations
- Solder Coated Nickel Barrier Pads
- Isolated and Bussed Circuits
- Resistor Arrays Require Fewer Placements Than Discrete Components
- Tape and Reel Packaging
- **RoHS Compliant in Accordance with EU Directive 2011/65/EU**
 - Lead-Free Termination Finish
 - Exemption 7(c)-I, Electrical and electronic components containing lead [Pb] in glass



ORDERING INFORMATION



Part Number Examples

Value \ Tolerance	3-Digit Code		4-Digit Code
	J ($\pm 5\%$)	G ($\pm 2\%$)	F ($\pm 1\%$)
10 Ohm	742C083100JP	742C083100GP	742C08310R0FP
49.9 Ohm	Not Available	Not Available	742C08349R9FP
120 Ohm	742C083121JP	742C083121GP	742C0831200FP
1K Ohm	742C083102JP	742C083102GP	742C0831001FP
68 Kohm	742C083683JP	742C083683GP	742C0836802FP

**Not all performance combinations and resistor values may be available.
 Contact your local CTS Representative or CTS Customer Service for availability.**

ORDERING INFORMATION
AVAILABLE RESISTOR VALUES & EIA CODES

Ohms	Code	Ohms	Code	Ohms	Code	Ohms	Code	Ohms	Code	Ohms	Code
0	000X	68	680	510	511	3.9K	392	30.0K	303	220K	224
10	100	75	750	560	561	4.3K	432	33.0K	333	240K	244
11	110	82	820	620	621	4.7K	472	36.0K	363	270K	274
12	120	91	910	680	681	5.1K	512	39.0K	393	300K	304
13	130	100	101	750	751	5.6K	562	43.0K	433	330K	334
15	150	110	111	820	821	6.2K	622	47.0K	473	360K	364
16	160	120	121	910	911	6.8K	682	51.0K	513	390K	394
18	180	130	131	1.0K	102	7.5K	752	56.0K	563	430K	434
20	200	150	151	1.1K	112	8.2K	822	62.0K	623	470K	474
22	220	160	161	1.2K	122	9.1K	912	68.0K	683	510K	514
24	240	180	181	1.3K	132	10.0K	103	75.0K	753	560K	564
27	270	200	201	1.5K	152	11.0K	113	82.0K	823	620K	624
30	300	220	221	1.6K	162	12.K	123	91.0K	913	680K	684
33	330	240	241	1.8K	182	13.K	133	100K	104	750K	754
36	360	270	271	2.0K	202	15.0K	153	110K	114	820K	824
39	390	300	301	2.2K	222	16.0K	163	120K	124	910K	914
43	430	330	331	2.4K	242	18.0K	183	130K	134	1M	105
47	470	360	361	2.7K	272	20.0K	203	150K	154		
51	510	390	391	3.0K	302	22.0K	223	160K	164		
56	560	430	431	3.3K	332	24.0K	243	180K	184		
62	620	470	471	3.6K	362	27.0K	273	200K	204		

TAPE & REEL INFORMATION

Reel Diameter 7"	740X043	741X043 741C083 741X083	742C043 742C083 742X083	741X163	742C163	743C043 744C043	743C083 744C083	745C101 745C102	745X101 745X102	746X101
Parts Per Reel	10,000	10,000	5,000	5,000	4,000	4,000	4,000	4,000	4,000	5,000
Pitch	2mm	2mm	4mm	4mm	4mm	4mm	4mm	4mm	4mm	4mm
Carrier Width	8mm	8mm	8mm	8mm * 12mm *	12mm	8mm	12mm	12mm	12mm	8mm
Material	Paper	Paper	Paper	Paper	Plastic	Plastic	Plastic	Plastic	Plastic	Paper

* See Ordering Information for packaging code indicator.

ELECTRICAL & ENVIRONMENTAL CHARACTERISTICS

Series	PCB Area (in ²) Per Resistor	Circuit Type	Resistance Range, Ohms	70°C Power Per Resistor *	Maximum Operating Voltage
740	0.0008	Isolated	10 - 1M	.031W	12.5V
741	0.0015	Isolated	10 - 1M	.063W	25V
742	0.0037	Isolated	10 - 1M	.063W	50V
743	0.0071	Isolated	10 - 1M	.100W	100V
744	0.0094	Isolated	10 - 1M	.125W	200V
745X	0.0058	Bussed	10 - 330K	.063W	50V
745C	0.0058	Bussed	100 - 470K	.063W	50V
746	0.0013	Bussed	10 - 100K	.031W	25V

* Total Rated Package Power equals total number of resistors times rated Power per Resistor

Resistance Tolerance: Std. $\pm 5\%$ or 0.5 Ω (whichever is greater).

See Ordering Information for other options available.

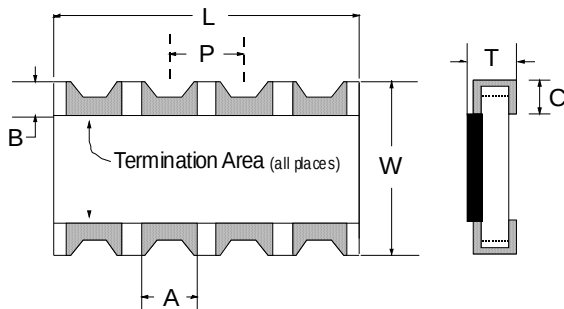
Operating Temperature Range: -55°C to +125°C.

Temperature Coefficient: ± 200 ppm/°C.

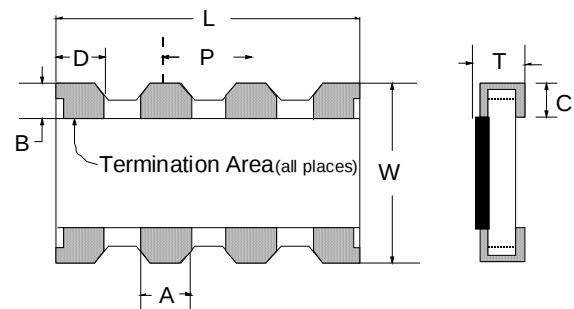
Test	Maximum Delta R			Test Description
	740	741	742-746	
Thermal Cycle	1.00%	1.00%	1.00%	5 Cycles -55°C to +125°C
Short Time Overload	2.00%	2.50%	1.00%	2½ Times Rated Working Voltage for 5 Seconds
Moisture Resistance	2.00%	5.00%	2.00%	240 Hours 10% rated load, -10°C to +65°C, 90% R.H.
High Temperature Exposure	3.00%	1.00%	1.00%	1000 Hours, no load, +125°C
Load Life	3.00%	5.00%	2.00%	1000 Hours @ +70°C, rated load
Resistance to Solder Heat	1.00%	2.50%	1.00%	10 Seconds @ +260°C solder
Resistance to Solvents				Isopropyl alcohol, Freon TMC
Solderability				RMA Flux, +230°C, 5 Seconds dip, 95% coverage

PACKAGE OUTLINES

CONCAVE TERMINATION – TYPE C



CONVEX TERMINATION – TYPE X

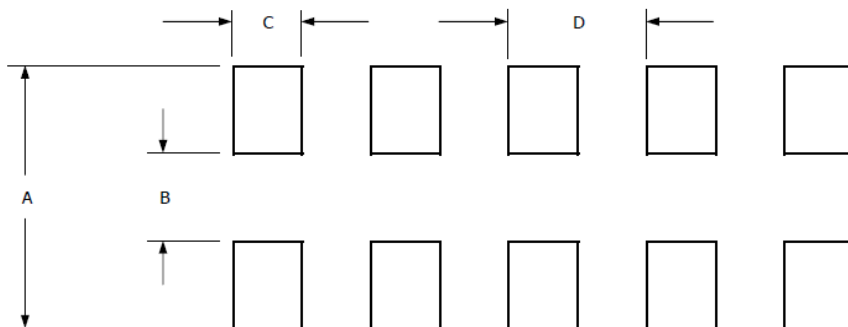


NOTES

1. Termination pads (e3). Barrier plating is nickel (Ni) with Matte tin (Sn) finish.
2. Reflow conditions per JEDEC-J-STD-020, +260°C maximum.

Dimensions [mm/inch]												
Part Code	Configuration	# Pads	# Res.	Circuit	L	W	P [Typ.]	T	A	B	C	D
740X043	0201 x 2	4	2	Isolated	0.80 ±0.10 0.031 ±0.004	0.60 ±0.10 0.024 ±0.004	0.50 0.020	0.35 ±0.10 0.014 ±0.004	0.35 ±0.10 0.014 ±0.004	0.175 ±0.125 ±0.005	0.15 ±0.10 0.006 ±0.004	-
741X043	0402 X 2	4	2	Isolated	1.00 ±0.20 0.039 ±0.008	1.00 ±0.20 0.039 ±0.008	0.65 0.026	0.35 ±0.10 0.014 ±0.004	0.295 ±0.135 0.012 ±0.005	0.20 ±0.15 0.008 ±0.006	0.25 ±0.10 0.010 ±0.004	0.33 ±0.15 0.013 ±0.006
741X083	0402 X 4	8	4	Isolated	2.00 ±0.20 0.079 ±0.008		0.50 0.020	0.40 ±0.15 0.016 ±0.006	0.30 ±0.15 0.012 ±0.006		0.25 ±0.20 0.010 ±0.008	0.40 ±0.15 0.016 ±0.006
741C083	0402 X 4	8	4	Isolated				0.375 ±0.125 0.015 ±0.005	0.29 ±0.11 0.011 ±0.004	0.20 ±0.10 0.008 ±0.004	0.265 ±0.115 0.011 ±0.005	N/A
741X163	0402 X 8	16	8	Isolated	3.95 ±0.25 0.156 ±0.01	1.60 ±0.15 0.063 ±0.006		0.45 ±0.10 0.018 ±0.004	0.30 ±0.10 0.012 ±0.004	0.30 ±0.15 0.012 ±0.006	0.375 ±0.175 0.0147 ±0.007	0.325 ±0.175 0.013 ±0.007
742C043	0603 X 2	4	2	Isolated	1.60 ±0.20 0.063 ±0.008	1.60 ±0.20 0.063 ±0.008	0.80 0.032	0.525 ±0.175 0.021 ±0.007	0.50 ±0.15 0.020 ±0.006	0.30 ±0.20 0.012 ±0.008	0.40 ±0.15 0.016 ±0.006	N/A
742X083	0603 X 4	8	4	Isolated	3.20 ±0.20 0.126 ±0.008			0.55 ±0.15 0.022 ±0.006	0.45 ±0.20 0.018 ±0.008		0.275 ±0.175 0.011 ±0.007	0.525 ±0.225 0.021 ±0.009
742C083								0.525 ±0.175 0.021 ±0.007	0.50 ±0.15 0.020 ±0.006		0.35 ±0.20 0.014 ±0.008	N/A
742C163	0603 X 8	16	8	Isolated	6.40 ±0.20 0.252 ±0.008						0.40 ±0.15 0.016 ±0.006	N/A
743C043	0805 X 2	4	2	Isolated	2.54 ±0.20 0.100 ±0.008	2.00 ±0.20 0.079 ±0.008	1.27	0.60 ±0.10	0.80 ±0.10	0.40 ±0.20 0.016 ±0.008	0.55 ±0.10 0.022 ±0.004	N/A
743C083	0805 X 4	8	4	Isolated	5.08 ±0.20 0.200 ±0.008		0.050	0.024 ±0.004	0.031 ±0.006			
744C043	1206 X 2	4	2	Isolated	2.54 ±0.20 0.100 ±0.008	3.20 ±0.20 0.126 ±0.008	1.27	0.60 ±0.10	0.80 ±0.10	0.50 ±0.30 0.020 ±0.012	0.55 ±0.10 0.022 ±0.004	N/A
744C083	1206 X 4	8	4	Isolated	5.08 ±0.20 0.200 ±0.008		0.050	0.024 ±0.004	0.031 ±0.006			
745C101	-	10	8	Bussed	6.40 ±0.20 0.252 ±0.008	3.10 ±0.30 0.126 ±0.012	1.27	0.575 ±0.125 0.025 ±0.005	0.60 ±0.15 0.024 ±0.006	0.50 ±0.15 0.020 ±0.006	0.55 ±0.30 0.022 ±0.012	N/A
745C102												
745X101	-	10	8	Bussed	6.40 ±0.20 0.252 ±0.008	3.20 ±0.20 0.126 ±0.008	0.050	0.60 ±0.10 0.024 ±0.004	0.95 ±0.20 0.037 ±0.008	0.50 ±0.15 0.020 ±0.006	0.50 ±0.15 0.020 ±0.006	1.10 ±0.15 0.043 ±0.006
745X102												
746X101	-	10	8	Bussed	3.20 ±0.20 0.126 ±0.008	1.60 ±0.15 0.063 ±0.006	0.64 0.025	0.60 ±0.10 0.024 ±0.004	0.35 ±0.05 0.014 ±0.002	0.30 ±0.15 0.012 ±0.006	0.35 ±0.15 0.014 ±0.006	0.45 ±0.05 0.018 ±0.002

RECOMMENDED LAND PATTERNS



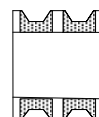
SERIES	DIMENSIONS [mm/in]			
	A	B	C	D
740	0.900 0.035	0.300 0.012	0.300 0.012	0.500 0.020
	1.800 0.071	0.500 0.020	0.400 0.016	0.670 0.026
741X043	1.800 0.071	0.500 0.020	0.300 0.012	0.500 0.020
	1.800 0.071	0.500 0.020	0.300 0.012	0.500 0.020
741X083	1.800 0.071	0.500 0.020	0.300 0.012	0.500 0.020
	1.800 0.071	0.500 0.020	0.300 0.012	0.500 0.020
741C083	1.800 0.071	0.500 0.020	0.300 0.012	0.500 0.020
	1.800 0.071	0.500 0.020	0.300 0.012	0.500 0.020
741X163	1.800 0.071	0.500 0.020	0.300 0.012	0.500 0.020
	1.800 0.071	0.500 0.020	0.300 0.012	0.500 0.020
742	2.600 0.102	0.800 0.031	0.450 0.018	0.800 0.031
	3.000 0.118	1.000 0.039	0.650 0.026	1.270 0.050
743	4.200 0.165	2.200 0.087	0.650 0.026	1.270 0.050
	4.200 0.165	2.200 0.087	0.650 0.026	1.270 0.050
744	3.900 0.154	2.100 0.083	0.900 0.035	1.270 0.050
	3.900 0.154	2.100 0.083	0.900 0.035	1.270 0.050
745	2.600 0.102	0.800 0.031	0.350 0.014	0.640 0.025
	2.600 0.102	0.800 0.031	0.350 0.014	0.640 0.025

CIRCUIT TYPES

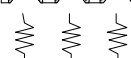
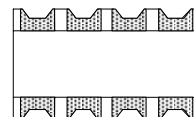


740X043
2 Resistors

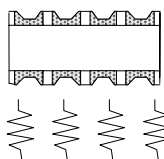
4 Terminations



744C043
2 Resistors
4 Terminations



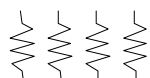
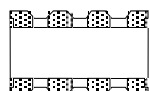
744C083
4 Resistors
8 Terminations



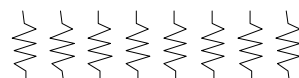
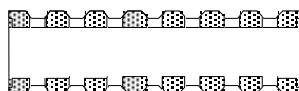
741C083
4 Resistors
8 Terminations



741X043
2 Resistors
4 Terminations



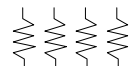
741X083
4 Resistors
8 Terminations



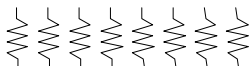
741X163
8 Resistors
16 Terminations



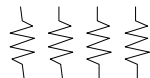
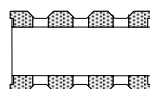
742C043
2 Resistors
4 Terminations



742C083
4 Resistors
8 Terminations



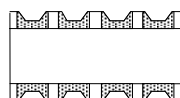
742C163
8 Resistors
16 Terminations



742X083
4 Resistors
8 Terminations



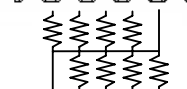
743C043
2 Resistors
4 Terminations



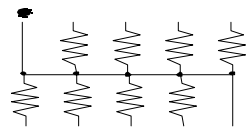
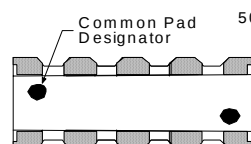
743C083
4 Resistors
8 Terminations



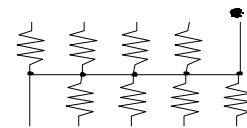
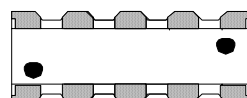
745C101
8 Resistors
10 Terminations



745C102
8 Resistors
10 Terminations

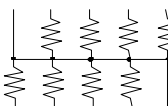
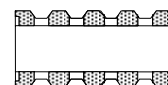


745X101
8 Resistors
10 Terminations



745X102
8 Resistors
10 Terminations

Note: The Marking Concept for Convex and Concave Series 745 is Different.



746X101
8 Resistors
10 Terminations



**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

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помещение 100-Н Офис 331