

Panasonic Surface Mount Chip Resistor Networks

Chip Resistor Networks - Series EXB-A, EXB-E and EXB-D:

FEATURES:

- High Density: Bussed 8 resistors for pull up/down circuit in EXB-A Type 2512 (6.4mm x 3.1mm x 0.55mm), EXB-E Type 1608 (4.0mm x 2.1mm x 0.55mm), and EXB-D Type 1206 (3.2mm x 1.6mm x .55mm) size
- Automatic Placement: Taped and reeled packaging is suitable for high speed automatic placement machine
- 2 common terminals without directional problem
- Superior Solderability: Self-alignment by unique concave terminal design with reflow soldering

SPECIFICATIONS:

- Resistance Range: 47Ω to 1MΩ
- Resistance Tolerance: ±5%

• Number of Terminals: 10 terminals

• Number of Resistors: 8 resistors

• Power Rating at 70°C: 62.5mW/element (50mW/element for EXB-D)

• Maximum Rated Continuous Working Voltage*: EXB-A: 50V, EXB-E: 25V, and EXB-D: 25V

• Maximum Overload Voltage: EXB-A: 100V, EXB-E: 50V, and EXB-D: 50V

• Temperature Characteristic Range: ±200 ppm/°C

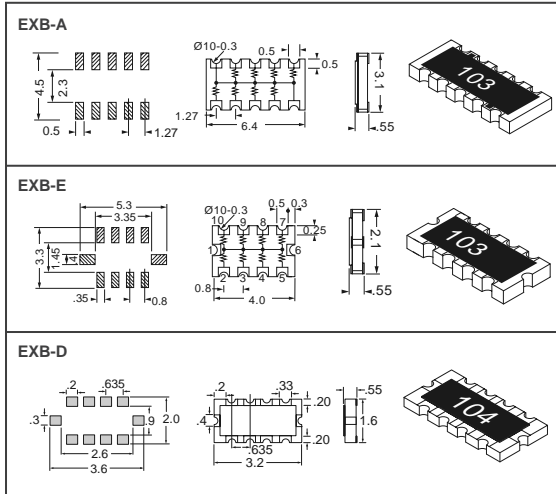
• Operating Temperature Range: -55°C to 125°C

• Solderability: 95% coverage (Test temperature at solder 230±5°C; Dwell time in solder: 5±1 seconds)

Resistance Codes (Values listed in ohms)

Code (Value)	Code (Value)	Code (Value)
470 (47)	152 (1.5K)	473 (47K)
560 (56)	182 (1.8K)	563 (56K)
680 (68)	222 (2.2K)	683 (68K)
820 (82)	272 (2.7K)	823 (82K)
101 (100)	332 (3.3K)	104 (100K)
121 (120)	392 (3.9K)	124 (120K)
151 (150)	472 (4.7K)	154 (150K)
181 (180)	562 (5.6K)	184 (180K)
221 (220)	682 (6.8K)	224 (220K)
271 (270)	822 (8.2K)	274 (270K)
331 (330)	103 (10K)	334 (330K)
391 (390)	123 (12K)	394 (390K)
471 (470)	153 (15K)	474 (470K)
561 (560)	183 (18K)	564 (560K)
681 (680)	223 (22K)	684 (680K)
821 (820)	273 (27K)	824 (820K)
102 (1.0K)	333 (33K)	105 (1M)
122 (1.2K)	393 (39K)	

* Rated continuous working voltage (RCWV) shall be determined from RCWV = √Power Rating x Resistance Value, or max. RCWV listed above, whichever is less.



Digi-Key* Part No.	Cut Tape Pricing				Digi-Key* Part No.	Tape & Reel Pricing				Panasonic* Part No.	
	1	10	100	500		1,000	4,000	5,000	8,000		10,000
U7□□□CT-ND	.46	4.26	34.50	143.75	230.00	U7□□□TR-ND	209.00/M	—	177.00/M	—	EXB-A10P□□□□
U8□□□CT-ND	.42	3.89	31.50	131.25	210.00	U8□□□TR-ND	191.00/M	—	162.00/M	—	EXB-E10C□□□□
U9□□□CT-ND	.44	4.03	32.70	136.25	218.00	U9□□□TR-ND	—	198.00/M	—	168.00/M	EXB-D10C□□□□

* For complete part number, substitute the corresponding resistance code (listed above) for □□□□.

Surface Mount Chip Resistor Arrays

FEATURES:

- High Density:
 - 2 resistors in 1.6mm x 1.6mm size (EXB-V4V)
 - 4 resistors in 3.2mm x 1.6mm size (EXB-V8V)
 - 2 resistors in 1.0mm x 1.0mm size (EXB-24V)
 - 4 resistors in 2.0mm x 1.0mm size (EXB-28V)
 - 2 resistors in 1.6mm x 1.6mm size (EXB-34V)
 - 4 resistors in 3.2mm x 1.6mm size (EXB-38V)
 - 8 resistors in 3.8mm x 1.6mm size (EXB-2HV)
- Improvement of placement efficiency: Placement efficiency of Chip Resistor Array is two or four times that of discrete chip resistors.

SPECIFICATIONS:

- Resistance Range: 10Ω to 1MΩ
- Resistance Tolerance: J: ±5%
- Power Rating at 70°C: 1/16 W/element
- Maximum Rated Continuous Working Voltage*: 50V; 25V for EXB-2HV
- Maximum Overload Voltage: 100V; 50V for EXB-2HV
- Temperature Characteristic Range: ±200ppm/°C
- Operating Temperature Range: -55°C to 125°C
- Storage Temperature Range: -55°C to 125°C

* Rated continuous working voltage (RCWV) shall be determined from RCWV = √Power Rating x Resistance Value, or max. RCWV listed above, whichever is less.

Isolated Terminals Resistance Codes (Value listed in ohms)

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
100 (10)	820 (82)	681 (680)	562 (5.6K)	473 (47K)	394 (390K)
120 (12)	101 (100)	821 (820)	682 (6.8K)	563 (56K)	474 (470K)
150 (15)	121 (120)	102 (1K)	683 (68K)	564 (560K)	
180 (18)	151 (150)	122 (1.2K)	103 (10K)	823 (82K)	684 (680K)
220 (22)	181 (180)	152 (1.5K)	123 (12K)	104 (100K)	824 (820K)
270 (27)	221 (220)	182 (1.8K)	153 (15K)	124 (120K)	105 (1M)
330 (33)	271 (270)	222 (2.2K)	183 (18K)	154 (150K)	000 (0.0)†
390 (39)	331 (330)	272 (2.7K)	223 (22K)	184 (180K)	
470 (47)	391 (390)	332 (3.3K)	273 (27K)	224 (220K)	
560 (56)	471 (470)	392 (3.9K)	333 (33K)	274 (270K)	
680 (68)	561 (560)	472 (4.7K)	393 (39K)	334 (330K)	

† Zero ohm jumper is for EXB-2HV Series Only

Fig.	No. of Res.	Digi-Key* Part No.	Cut Tape Pricing				Digi-Key* Part No.	Tape & Reel Pricing			Panasonic* Part No.
			10	100	500	1,000		5,000	10,000	20,000	
1	2	Y2□□□CT-ND	.48	4.20	15.00	25.80	Y2□□□TR-ND	17.00/M	16.00/M	—	EXB-V4V□□□□JV
2	4	Y4□□□CT-ND	.80	7.00	25.00	43.00	Y4□□□TR-ND	28.00/M	26.00/M	—	EXB-V8V□□□□JV
1	2	Y5□□□CT-ND	1.56	13.65	48.75	83.85	Y5□□□TR-ND	—	53.00/M	51.00/M	EXB-24V□□□□JX
2	4	Y7□□□CT-ND	2.56	22.40	80.00	137.60	Y7□□□TR-ND	—	86.00/M	83.00/M	EXB-28V□□□□JX
1	2	Y8□□□CT-ND	.52	4.55	16.25	27.95	Y8□□□TR-ND	18.00/M	17.00/M	—	EXB-34V□□□□JV
2	4	Y9□□□CT-ND	.96	8.40	30.00	51.60	Y9□□□TR-ND	34.00/M	31.00/M	—	EXB-38V□□□□JV
3	8	Y1□□□CT-ND	1.80	15.75	56.25	96.75	Y1□□□TR-ND	61.00/M	59.00/M	—	EXB-2HV□□□□JV

* For complete part number, substitute the corresponding resistance code (listed above) for □□□□.