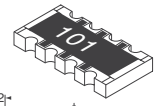
Panasonic® Surface Mount Chip Resistor Arrays



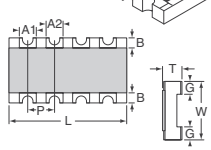
FEATURES: High Density: • 2 resistors in 0.8mm x 0.6mm size (EXB-14V) • 2 resistors in 1.6mm x 1.6mm size (EXB-V4V) • 4 resistors in 3.2mm x 1.6mm size (EXB-V8V) • 2 resistors in 1.0mm x 1.0mm size (EXB-24V) • 4 resistors in 1.4mm x 0.6mm size (EXB-18V) • 4 resistors in 2.0mm x 1.0mm size (EXB-28V) • 4 resistors in 2.0mm x 1.0mm size (EXB-N8V) • 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 Tolerance: J: ±5% • Power Rating at 70°C: 1/16W per element; 1/32W for EXB-14V, EXB-28V, EXB-N8V and EXB-18V • Maximum Rated Continuous Working Voltage ‡: 50V; 25V for EXB-2HV; 12.5V for EXB-14V and EXB-18V • Maximum Overload Voltage: 100V; 50V for EXB-2HV; 25V for EXB-14V and EXB-18V • Temperature Characteristic Range: ±200ppm/°C • Operating Temperature Range: -55°C ~ 125°C

EXB-N8V, EXB-V4V and EXB-V8V

Type	Dimensions – mm L	W	T	A1	A2	B	P	G	Weight (g/M pcs.)
EXB-N8V	2.0	1.0	0.45	0.3	0.3	0.2	0.5	0.30	3.0
EXB-V4V	1.6	1.6	0.60	0.6	—	0.3	0.8	0.45	5.0
EXB-V8V	3.2	1.6	0.60	0.6	0.6	0.3	0.8	0.45	10

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



Isolated Terminals

Fig. 1 — 2 Resistors

Fig. 2 — 4 Resistors

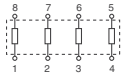
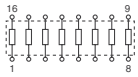
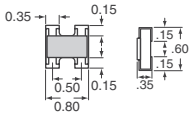


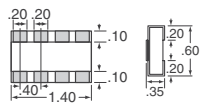
Fig. 3 — 8 Resistors



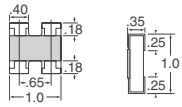
EXB-14V



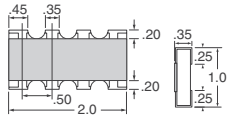
EXB-18V



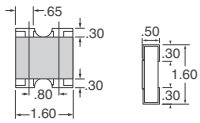
EXB-24V



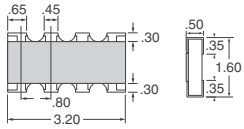
EXB-28V



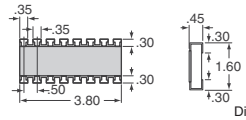
EXB-34V



EXB-38V



EXB-2HV



Dim. in mm

EXB-V4V, EXB-V8V, EXB-24V, EXB-34V and EXB-38V Series Isolated Terminals Resistance Codes (E12 Values) (Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	3R9 (3R9)	27 (270)	470 (471)	8.2K (822)	150K (154)
1.0 (1R0)	4R3 (4R3)	33 (330)	560 (561)	10K (103)	180K (184)
1.1 (1R1)	4R7 (4R7)	39 (390)	680 (681)	12K (123)	220K (224)
1.2 (1R2)	5R1 (5R1)	47 (470)	820 (821)	15K (153)	270K (274)
1.3 (1R3)	5R6 (5R6)	56 (560)	1.0K (102)	18K (183)	330K (334)
1.5 (1R5)	6R2 (6R2)	68 (680)	1.2K (122)	22K (223)	390K (394)
1.6 (1R6)	6R8 (6R8)	82 (820)	1.5K (152)	27K (273)	470K (474)
1.8 (1R8)	7R5 (7R5)	100 (101)	1.8K (182)	33K (333)	560K (564)
2.0 (2R0)	8R2 (8R2)	120 (121)	2.2K (222)	39K (393)	680K (684)
2.2 (2R2)	9R1 (9R1)	150 (151)	2.7K (272)	47K (473)	820K (824)
2.4 (2R4)	10 (100)	180 (181)	3.3K (332)	56K (563)	1M (105)
2.7 (2R7)	12 (120)	220 (221)	3.9K (392)	68K (683)	
3.0 (3R0)	15 (150)	270 (271)	4.7K (472)	82K (823)	
3.3 (3R3)	18 (180)	330 (331)	5.6K (562)	100K (104)	
3.6 (3R6)	22 (220)	390 (391)	6.8K (682)	120K (124)	

EXB-14V and EXB-18V Series Isolated Terminals Resistance Codes (E12 Values) (Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	47 (470)	270 (271)	1.5K (152)	8.2K (822)	47K (473)	270K (274)
10 (100)	56 (560)	330 (331)	1.8K (182)	10K (103)	56K (563)	330K (334)
12 (120)	68 (680)	390 (391)	2.2K (222)	12K (123)	68K (683)	390K (394)
15 (150)	82 (820)	470 (471)	2.7K (272)	15K (153)	82K (823)	470K (474)
18 (180)	100 (101)	560 (561)	3.3K (332)	18K (183)	100K (104)	560K (564)
22 (220)	120 (121)	680 (681)	3.9K (392)	22K (223)	120K (124)	680K (684)
27 (270)	150 (151)	820 (821)	4.7K (472)	27K (273)	150K (154)	820K (824)
33 (330)	180 (181)	1.0K (102)	5.6K (562)	33K (333)	180K (184)	1M (105)
39 (390)	220 (221)	1.2K (122)	6.8K (682)	39K (393)	220K (224)	

EXB-2HV Series Isolated Terminals Resistance Codes (E12 Values) (Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	10 (100)	120 (121)	1.5K (152)	18K (183)	220K (224)
1.0 (1R0)	12 (120)	150 (151)	1.8K (182)	22K (223)	270K (274)
1.2 (1R2)	15 (150)	180 (181)	2.2K (222)	27K (273)	330K (334)
1.5 (1R5)	18 (180)	220 (221)	2.7K (272)	33K (333)	390K (394)
1.8 (1R8)	22 (220)	270 (271)	3.3K (332)	39K (393)	470K (474)
2.2 (2R2)	27 (270)	330 (331)	3.9K (392)	47K (473)	560K (564)
2.7 (2R7)	33 (330)	390 (391)	4.7K (472)	56K (563)	680K (684)
3.3 (3R3)	39 (390)	470 (471)	5.6K (562)	68K (683)	820K (824)
3.9 (3R9)	47 (470)	560 (561)	6.8K (682)	82K (823)	1M (105)
4.7 (4R7)	56 (560)	680 (681)	8.2K (822)	100K (104)	
5.6 (5R6)	68 (680)	820 (821)	10K (103)	120K (124)	
6.8 (6R8)	82 (820)	1.0K (102)	12K (123)	150K (154)	
8.2 (8R2)	100 (101)	1.2K (122)	15K (153)	180K (184)	

EXB-28V and EXB-N8V Series Isolated Terminals Resistance Codes (E24 Values) (Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	6.8 (6R8)	51 (510)	390 (391)	3.0K (302)	22K (223)	160K (164)
1.0 (1R0)	7.5 (7R5)	56 (560)	430 (431)	3.3K (332)	24K (243)	180K (184)
1.1 (1R1)	8.2 (8R2)	62 (620)	470 (471)	3.6K (362)	27K (273)	200K (204)
1.2 (1R2)	9.1 (9R1)	68 (680)	510 (511)	3.9K (392)	30K (303)	220K (224)
1.3 (1R3)	10 (100)	75 (750)	560 (561)	4.3K (432)	33K (333)	240K (244)
1.5 (1R5)	11 (110)	82 (820)	620 (621)	4.7K (472)	36K (363)	270K (274)
1.6 (1R6)	12 (120)	91 (910)	680 (681)	5.1K (512)	39K (393)	300K (304)
1.8 (1R8)	13 (130)	100 (101)	750 (751)	5.6K (562)	43K (433)	330K (334)
2.0 (2R0)	15 (150)	110 (111)	820 (821)	6.2K (622)	47K (473)	360K (364)
2.2 (2R2)	16 (160)	120 (121)	910 (911)	6.8K (682)	51K (513)	390K (394)
2.4 (2R4)	18 (180)	130 (131)	1.0K (102)	7.5K (752)	56K (563)	430K (434)
2.7 (2R7)	20 (200)	150 (151)	1.1K (112)	8.2K (822)	62K (623)	470K (474)
3.0 (3R0)	22 (220)	160 (161)	1.2K (122)	9.1K (912)	68K (683)	510K (514)
3.3 (3R3)	24 (240)	180 (181)	1.3K (132)	10K (103)	75K (753)	560K (564)
3.6 (3R6)	27 (270)	200 (201)	1.5K (152)	11K (113)	82K (823)	620K (624)
3.9 (3R9)	30 (300)	220 (221)	1.6K (162)	12K (123)	91K (913)	680K (684)
4.3 (4R3)	33 (330)	240 (241)	1.8K (182)	13K (133)	100K (104)	750K (754)
4.7 (4R7)	36 (360)	270 (271)	2.0K (202)	15K (153)	110K (114)	820K (824)
5.1 (5R1)	39 (390)	300 (301)	2.2K (222)	16K (163)	120K (124)	910K (914)
5.6 (5R6)	43 (430)	330 (331)	2.4K (242)	18K (183)	130K (134)	1M (105)
6.2 (6R2)	47 (470)	360 (361)	2.7K (272)	20K (203)	150K (154)	

Fig.	No. of Resistors	Resistor Value Range§	Digi-Key Part No.†	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.†	Tape and Reel Pricing 5,000	10,000	30,000	Panasonic Part No.†
2	4	E24	Y10(Code)CT-ND	.12	2.35	3.57	6.64	Y10(Code)TR-ND	—	6.74/M	—	EXB-N8V□□□JX
1	2	E12	Y2(Code)CT-ND	.21	4.20	6.49	12.61	Y2(Code)TR-ND	14.42/M	13.62/M	—	EXB-V4V□□□JV
2	4	E12	Y4(Code)CT-ND	.35	7.01	10.81	21.02	Y4(Code)TR-ND	24.03/M	22.43/M	—	EXB-V8V□□□JV
1	2	E12	Y3(Code)CT-ND	.53	10.26	16.49	32.06	Y3(Code)TR-ND	—	40.04/M	38.44/M	EXB-14V□□□JX
2	4	E12	Y6(Code)CT-ND◆	.66	13.70	22.63	44.67	Y6(Code)TR-ND◆	—	63.27/M	—	EXB-18V□□□JX
1	2	E12	Y5(Code)CT-ND	.36	7.01	11.26	21.89	Y5(Code)TR-ND	—	27.23/M	26.43/M	EXB-24V□□□JX
2	4	E24	Y7(Code)CT-ND	.36	7.01	11.26	21.89	Y7(Code)TR-ND	—	27.23/M	26.43/M	EXB-28V□□□JX
1	2	E12	Y8(Code)CT-ND	.18	3.45	5.25	9.76	Y8(Code)TR-ND	11.22/M	9.61/M	—	EXB-34V□□□JV
2	4	E12	Y9(Code)CT-ND	.18	3.60	5.47	10.15	Y9(Code)TR-ND	12.02/M	10.41/M	—	EXB-38V□□□JV
3	8	E12	Y1(Code)CT-ND	.50	10.36	17.12	33.79	Y1(Code)TR-ND	48.85/M	47.25/M	—	EXB-2HV□□□JV

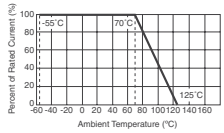
† For complete part number, substitute the corresponding resistance Code. § E24 Resistance Values are available for other series. Please call Digi-Key for details. ◆ ***RoHS Compliant***

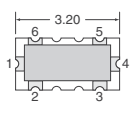
RF Jumper Chip Resistor

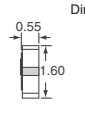
Digi-Reel® RoHS COMPLIANT

SPECIFICATIONS:

• Isolation (2.5GHz): -40dB maximum • Return Loss (2.5GHz): -20dB maximum • Rated Current: 1A (derating curve for jumpers operated in ambient temperatures above 70°C, rated current shall be derated in accordance with derating curve chart • Number of Terminals: 6 • Temperature Range: -55°C ~ 125°C







Dim. in mm

Resistance (1-4 Terminal)	Insertion Loss (2.5GHz)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.	Tape and Reel Pricing 5,000	10,000	25,000	Panasonic Part No.
50mΩ max.	-0.5dB max.	P0.0NCT-ND	.55	11.40	18.83	37.17	P0.0NTR-ND	53.66/M	52.06/M	50.46/M	EXB-D6JP000A

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key® Services on page 2 for additional information.**

Free shipping on orders over €65! All prices in euro.