

Panasonic

Surface Mount 2 Mode Noise Filters



EXC-24CB and EXC-24CP Series

FEATURES:

- Acoustic quality improvement of mobile phone and portable audio equipment • Effectively suppresses both common mode noise and normal mode noise • Small size and light weight

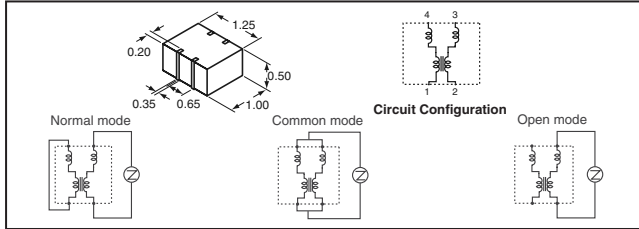
APPLICATIONS:

- Receiver line, microphone line and headset of mobile phone • Small digital equipment such as personal computers, printer, HDD, DVD-ROM, CD-ROM and LCD • Digital audio and video equipment such as PDA, DSC, DVC, CD Player, DVD Player and MD Player

SPECIFICATIONS:

- Tolerance: ±25% • Rated Voltage: 5VDC

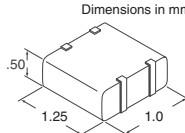
Dimensions in mm



Open Mode Impedance @100MHz (Ω)	Rated Current (mA DC)	DC Resist. Max. (Ω)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Qty.	Reel Pricing	Panasonic Part No.
				1	50	100			
1000	50	1.5	P11169CT-ND	.39	16.55	31.20	5,000	191.40/M	EXC-24CB102U
220	100	0.7	P11170CT-ND	.39	16.55	31.20	5,000	191.40/M	EXC-24CB221U
600	200	0.9	P14215CT-ND	.07	3.15	5.93	10,000	36.04/M	EXC-24CN601X
220	350	0.4	P11598CT-ND	.41	17.18	32.38	5,000	198.60/M	EXC-24CP221U
120	500	0.3	P11597CT-ND	.41	17.18	32.38	5,000	198.60/M	EXC-24CP121U

† For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Common Mode Noise Filters



APPLICATIONS: AV Equipment, USB, LVDS, IEEE1394, HDMI, SATA
SPECIFICATIONS: • Rated Voltage: 5VDC

Common Mode	Impedance @100MHz (Ω)	Rated Current (mA DC)	DC Resist. (Ω)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel Pricing 5,000	Panasonic Part No.
					1	50	100		
120	35	140	2	P11171CT-ND	.55	.47	.44	265.87/M	EXC-24CD121U
200	40	130	3	P11172CT-ND	.55	.47	.44	265.87/M	EXC-24CD201U
60	20	160	2	P11173CT-ND	.55	.47	.44	265.87/M	EXC-24CD600U
90	30	160	2	P11174CT-ND	.55	.47	.44	265.87/M	EXC-24CD900U
36	20	200	1	P13759CT-ND	.42	.36	.34	204.21/M	EXC-24CE360UP
90	20	130	2.5	P13761CT-ND	.42	.36	.34	204.21/M	EXC-24CF900U
24	15	160	1.5	P13760CT-ND	.54	.46	.44	265.07/M	EXC-24CG240U
90	20	100	3	P13570CT-ND	.54	.46	.43	261.06/M	EXC-24CG900U

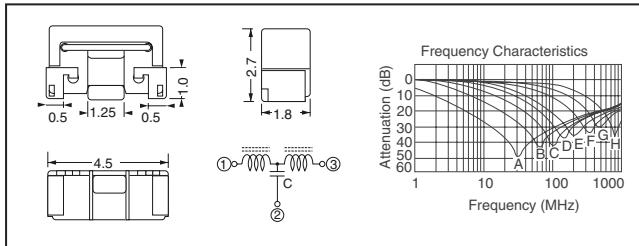
† For Tape and Reel part number, change CT-ND to TR-ND.

SMT EMI Filters



SPECIFICATIONS: • 50VDC • 2A Maximum

Dimensions in mm



Dia.	Cap. (pF)	25dB Frequency (MHz)	15dB Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
					1	50	100			
H	22	800 - 1,000	600 - 1,000	P9825CT-ND	.53	.45		P9825TR-ND	257.06	EXC-CET220U
G	47	450 - 550	350 - 1,000	P9826CT-ND	.53	.45		P9826TR-ND	257.06	EXC-CET470U
F	100	300 - 450	200 - 900	P9827CT-ND	.53	.45		P9827TR-ND	257.06	EXC-CET101U
E	270	200 - 300	80 - 700	P9828CT-ND	.53	.45		P9828TR-ND	257.06	EXC-CET271U
D	470	100 - 220	50 - 700	P9829CT-ND	.53	.45		P9829TR-ND	257.06	EXC-CET471U
A	1,000	65 - 200	30 - 700	P9830CT-ND	.53	.45		P9830TR-ND	257.06	EXC-CET102U
B	2,200	35 - 180	15 - 700	P9831CT-ND	.53	.45		P9831TR-ND	257.06	EXC-CET222U
A	10,000	15 - 120	15 - 700	P9832CT-ND	.53	.45		P9832TR-ND	257.06	EXC-CET103U

SMT Digital Noise Filters



Series K: Type E

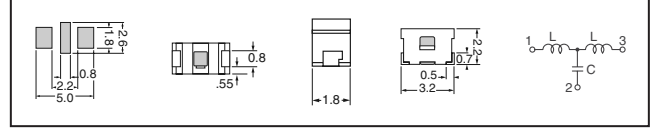
High performance noise filter for digital signal processing circuits.

- FEATURES: • 3218 case size, 2A rated current • No variation in attenuation characteristics as current changes • The stable P/N marking using laser technology makes the part number check easier

- SPECIFICATIONS: • Operating Temperature: -20 ~ +85°C • Rated Voltage: DC 50V (Except ELKE333FA: DC 25V) • Rated Current: DC 2A • Reliability characteristics endurance (High Temp.) Soldering condition (reflow): 85°C 50V 2A 1000h (Spec: 500h)

- APPLICATIONS: • Office automated equipment • TVs, VTRs • Communication equipment

Dimensions in mm



Cut-off Frequency (MHz)	Inner Capacitance (pF typ.)	Rated Voltage (V)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel Pricing 2,000	Panasonic Part No.
					1	50	100		
250	10	50	2.0	P9870CT-ND	.38	.33	.31	184.99/M	ELK-E100FA
200	22	50	2.0	P9871CT-ND	.38	.33	.31	184.99/M	ELK-E220FA
100	47	50	2.0	P9872CT-ND	.38	.33	.31	184.99/M	ELK-E470FA
50	100	50	2.0	P9873CT-ND	.38	.33	.31	184.99/M	ELK-E101FA
25	220	50	2.0	P9874CT-ND	.38	.33	.31	184.99/M	ELK-E221FA
10	470	50	2.0	P9875CT-ND	.38	.33	.31	184.99/M	ELK-E471FA
5	1000	50	2.0	P9876CT-ND	.38	.33	.31	184.99/M	ELK-E102FA
2	2200	50	2.0	P9877CT-ND	.38	.33	.31	184.99/M	ELK-E222FA
0.5/DC	10000	50	2.0	P9878CT-ND	.38	.33	.31	184.99/M	ELK-E103FA
0.2/DC	33000	25	2.0	P13159CT-ND	.38	.33	.31	184.99/M	ELK-E333FA

† For Tape and Reel part number, change CT-ND to TR-ND.

Digital Noise Filters

Dimensions in mm

ELKT Type

Useful EMI noise filter when signal and noise frequency are close in frequency. T type radial lead EMI filter consisting of one capacitor and two inductors.

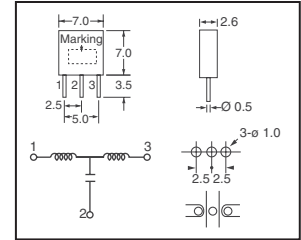
FEATURES:

- Flat response at signal frequency and sharp noise attenuation characteristics • Minimal distortion of pulse signal wave form and excellent noise attenuation toward high frequency noise (good EMI filter for analog signal line such as video signal)

APPLICATIONS:

- Reduction of EMI noise on the signal line, I/O line and DC line circuit within OA, AV, communication equipment

Replaces ELK-A series



Cut-off Frequency (MHz)	Impedance Z(Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each			Panasonic Part No.
				1	50	100	
55	300	100	P11101CT-ND	.81	.68	.64	ELK-TT180EA

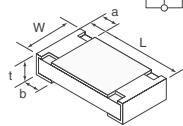
ESD Suppressor



- FEATURES: • ESD Protection of high-speed data lines • Low capacitance 0.04 pF: 0201 size, 0.05 pF: 0402 size, 0.1pF: 0603 size • Good ESD suppression characteristics • Good ESD withstanding

- Operating Temperature Range: -55°C ~ 125°C APPLICATIONS: • High-Speed Data Lines (HDMI, SATA, USB, IEEE1394, Display port) • Antenna Circuitry and RF Modules (Cellular Phones) SPECIFICATIONS: • Rated Voltage: 30V maximum

Size Code	Dimensions - mm				
	L	W	a	b	t
EZAEG1A (0201)	0.60	0.30	0.15	0.15	0.23
EZAEG2A (0402)	1.00	0.50	0.20	0.25	0.38
EZAEG3A (0603)	1.60	0.80	0.30	0.30	0.50



Max. Peak Volt.	Max. Clamp. Volt.	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
			1	10	100		Qty.	Pricing	
500V	100V	P14219CT-ND	.50	2.95	20.15	P14219TR-ND	15,000	125.73/M	EZA-EG1A50AC
	100V	P13571CT-ND	.38	2.16	14.03	P13571TR-ND	10,000	82.49/M	EZA-EG2A50AX
	100V	P13682CT-ND	.45	2.52	16.40	P13682TR-ND	5,000	100.90/M	EZA-EG3A50AV

ESD Suppressor Array

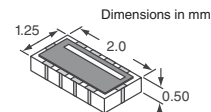


0805 Series

- FEATURES: • ESD Protection of high-speed data lines • Low capacitance 0.25pF • Good ESD suppression characteristics • Good ESD withstanding

- APPLICATIONS: • High-Speed Data Lines (HDMI, IEEE1394)

- SPECIFICATIONS: • Rated Voltage: 15V • Operating Temperature Range: -55°C ~ 125°C



Max. Peak Voltage	Max. Clamping Voltage	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
			1	10	100		Qty.	Pricing	
500V	100V	P14127CT-ND	1.14	.71	.52	P14127TR-ND	5,000	354.76/M	EZA-EGCA50AV

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.

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