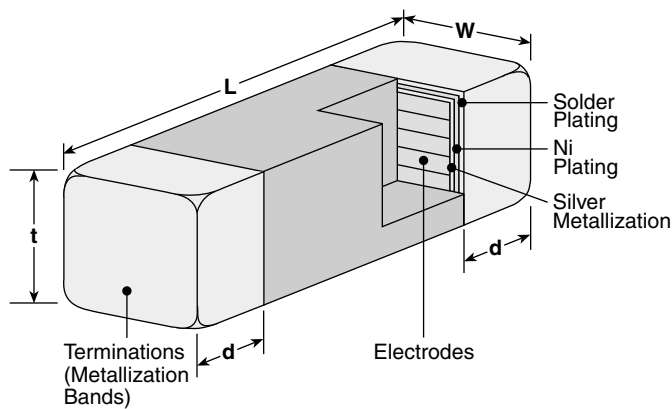


### features

- Designed to reduce noise at high frequencies
- Standard EIA packages: 1E, 1J, 2A, 2B
- Nickel barrier with solder overcoat for excellent solderability
- Magnetically shielded
- Marking: Black body color with no marking

### dimensions and construction



Type (Inch Size Code)	Dimensions inches (mm)			
	L	W	t	d
<b>1E</b> (0402)	.039±.004 (1.0±0.1)	.02±.004 (0.5±0.1)	.02±.004 (0.5±0.1)	.01±.004 (0.25±0.1)
<b>1J</b> (0603)	.063±.006 (1.6±0.15)	.031±.006 (0.8±0.15)	.031±.006 (0.8±0.15)	.014±.006 (0.36±0.15)
<b>2A</b> (0805)	.079±.008 (2.0±0.2)	.049±.008 (1.25±0.2)	.035±.008 (0.9±0.2)	.02±.01 (0.51±0.25)
<b>2B</b> (1206)	.126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)	.043±.008 (1.1±0.2)	.02±.01 (0.51±0.25)

EMILEMIC  
filtering

### ordering information

Old Part #	MCB	0402	G		T	120	K
	Type	Rating	Permeability Code		Packaging	Impedance	Tolerance
New Part #	CZB	1E	G	L	TD	120	K
	Type	Size	Permeability Code	Termination Material	Packaging	Impedance	Tolerance
		1E 1J 2A 2B	F G S	L: SnPb T: Sn	TD: 7" paper tape (1E only - 10,000 pieces/reel) TE: 7" embossed plastic (1J, 2A - 4,000 pieces/reel) (2B - 3,000 pieces/reel)	2 significant figures + 1 multiplier	J: ±5% K: ±10% M: ±20% P: ±25%

For further information on packaging, please refer to Appendix A.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

## applications and ratings

Part Designation	Impedance @ 100MHz † (Ω)	DC Resistance Maximum †† (Ω)	Allowable DC Current Maximum (mA)	Operating Temperature Range
CZB1EG*TD100**	10	0.05	500	-55°C to +125°C
CZB1EG*TD150**	15	0.07	300	
CZB1EG*TD700**	70	0.40	200	
CZB1EG*TD121**	120	0.50		
CZB1EG*TD221**	220	0.70	100	
CZB1EG*TD601**	600	1.10	50	
CZB1EG*TD102**	1000	1.50		
CZB1JG*TE300**	30	0.10	400	-55°C to +125°C
CZB1JG*TE400**	40			
CZB1JG*TE600**	60			
CZB1JG*TE750**	75	0.20	300	
CZB1JG*TE800**	80			
CZB1JG*TE900**	90			
CZB1JG*TE101**	100	0.30	250	
CZB1JG*TE121**	120			
CZB1JG*TE141**	140			
CZB1JG*TE151**	150	0.30	250	
CZB1JG*TE181**	180			
CZB1JG*TE221**	220			
CZB1JG*TE301**	300	0.35	230	
CZB1JG*TE421**	420			
CZB1JG*TE601**	600			
CZB1JG*TE102**	1000	0.60	190	
CZB1JG*TE152**	1500			
CZB1JG*TE182**	1800			
CZB1JG*TE202**	2000	0.80	50	
CZB1JS*TE050**	5			
CZB1JS*TE180**	18			
CZB1JS*TE750**	75	0.35	200	
CZB1JS*TE121**	120			
CZB1JS*TE141**	140			
CZB1JS*TE421**	420	0.50	150	
CZB1JS*TE601**	600			
CZB1JS*TE721**	720			
CZB1JS*TE102**	1000	0.60	150	
CZB2AF*TE050**	5			
CZB2AF*TE070**	7			
CZB2AF*TE100**	10	0.10	800	-55°C to +125°C
CZB2AF*TE110**	11			
CZB2AF*TE120**	12			
CZB2AF*TE170**	17			
CZB2AF*TE300**	30			
CZB2AF*TE400**	40			
CZB2AF*TE500**	50			
CZB2AF*TE750**	75			
CZB2AF*TE800**	80	0.15	400	
CZB2AG*TE900**	90			
CZB2AG*TE101**	100			

\* Add termination material character (L, T)  
 \*\* Add tolerance character (J, K, M, P)

† Impedance test method: HP4291A  
 †† DCR test method: Keithley 580

For complete environmental specifications, please refer to pages 157-158.

EMI/EMC filtering

applications and ratings (continued)

Part Designation	Impedance @ 100MHz † (Ω)	DC Resistance Maximum †† (Ω)	Allowable DC Current Maximum (mA)	Operating Temperature Range	
CZB2AG*TE121**	120	0.15	400	-55°C to +125°C	
CZB2AG*TE151**	150	0.30	200		
CZB2AG*TE181**	180				
CZB2AG*TE201**	200				
CZB2AG*TE301**	300				
CZB2AG*TE401**	400				
CZB2AG*TE421**	420				
CZB2AG*TE601**	600				
CZB2AG*TE751**	750				
CZB2AG*TE102**	1000	0.40			
CZB2AG*TE152**	1500	0.55			
CZB2AG*TE182**	1800	0.80			
CZB2AG*TE202**	2000	0.70			
CZB2AG*TE222**	2200	0.60			
CZB2AS*TE180**	18	0.10	600		
CZB2AS*TE201**	200	0.40	200		
CZB2AS*TE221**	220	0.25			
CZB2AS*TE601**	600	0.40			
CZB2AS*TE751**	750	0.70			
CZB2AS*TE102**	1000	0.75			100
CZB2AS*TE272**	2700	0.80			200
CZB2BF*TE190**	19	0.10			600
CZB2BF*TE260**	26				
CZB2BF*TE300**	30				
CZB2BF*TE500**	50				
CZB2BF*TE600**	60				
CZB2BF*TE700**	70				
CZB2BF*TE800**	80				
CZB2BF*TE900**	90				
CZB2BF*TE101**	100	0.20	400		
CZB2BF*TE121**	120	0.15	300		
CZB2BF*TE151**	150				
CZB2BF*TE201**	200				
CZB2BF*TE301**	300				
CZB2BF*TE601**	600			0.50	200
CZB2BG*TE102**	1000			0.70	150
CZB2BG*TE152**	1500 @ 50MHz			0.90	100
CZB2BG*TE202**	2000 @ 30MHz			0.60	
CZB2BG*TE222**	2200 @ 50MHz	1.00	200		
CZB2BS*TE190**	19	0.10	600		
CZB2BS*TE300**	30				
CZB2BS*TE181**	180			300	
CZB2BS*TE601**	600	0.30	200		

\* Add termination material character (L, T)  
 \*\* Add tolerance character (J, K, M, P)

† Impedance test method: HP4291A  
 †† DCR test method: Keithley 580

For complete environmental specifications, please refer to pages 157-158.

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