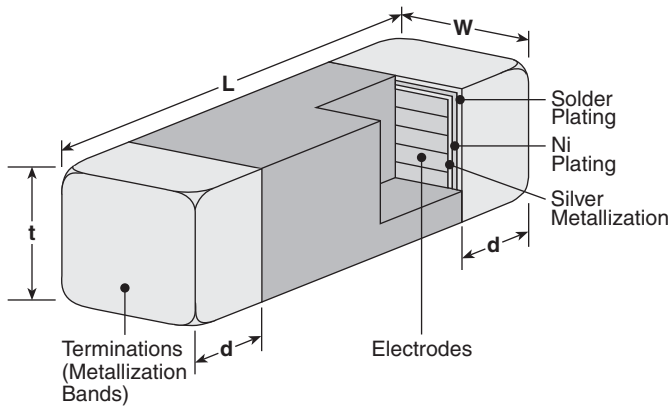


**features**

- 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
- Products with lead-free terminations meet EU RoHS requirements

**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)	.020±.012 (0.51±0.30)
<b>2B</b> (1206)	.126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)	.043±.008 (1.1±0.2)	.020±.012 (0.51±0.30)

EMI/EMC filtering

**ordering information**

New Part #	<b>CZB</b>	<b>1E</b>	<b>G</b>	<b>T</b>	<b>TP</b>	<b>120</b>	<b>P</b>
	Type	Size	Permeability Code	Termination Material	Packaging	Impedance	Tolerance
		1E 1J 2A 2B	F G S	T: Sn	TP: 7" paper tape (1E only - 10,000 pieces/reel) TD: 7" paper tape (1J - 4,000 pieces/reel) (2A - <2000Ω - 4,000 pieces/reel; 2200Ω - 2,000 pieces/reel) TE: 7" embossed plastic (2B - 3,000 pieces/reel)	2 significant figures + 1 multiplier	P: ±25%

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

## applications and ratings

Part Designation	Impedance @ 100MHz <sup>†</sup> (Ω)	DC Resistance Maximum <sup>††</sup> (Ω)	Allowable DC Current Maximum (mA)	Operating Temperature Range
CZB1EGTTP100P	10	0.05	600	-55°C to +125°C
CZB1EGTTP300P	30	0.30	500	
CZB1EGTTP600P	60	0.40	350	
CZB1EGTTP700P	70			
CZB1EGTTP800P	80			
CZB1EGTTP121P	120			
CZB1EGTTP221P	220	0.70	200	
CZB1EGTTP301P	300	0.80		
CZB1EGTTP451P	450	0.90		
CZB1EGTTP601P	600	1.00		
CZB1EGTTP102P	1000	1.50	100	
CZB1ESTTP100P	10	0.20	400	
CZB1ESTTP300P	30			
CZB1ESTTP600P	60			
CZB1ESTTP800P	80	0.40	300	
CZB1ESTTP121P	120			
CZB1ESTTP221P	220	0.60	200	
CZB1ESTTP301P	300	1.00		
CZB1ESTTP601P	600	1.20		
CZB1JGTTD300P	30	0.10	600	
CZB1JGTTD600P	60	0.20		
CZB1JGTTD800P	80			
CZB1JGTTD101P	100	0.25	400	
CZB1JGTTD121P	120			
CZB1JGTTD141P	140			
CZB1JGTTD151P	150	0.30	300	
CZB1JGTTD181P	180			
CZB1JGTTD221P	220			
CZB1JGTTD301P	300			
CZB1JGTTD421P	420	0.40	250	
CZB1JGTTD451P	450			
CZB1JGTTD601P	600	0.45	150	
CZB1JGTTD102P	1000	0.60		
CZB1JGTTD152P	1500	0.70		
CZB1JGTTD202P	2000	1.20	150	
CZB1JSTTD100P	10	0.10	600	
CZB1JSTTD300P	30	0.25	500	
CZB1JSTTD600P	60	0.30	400	
CZB1JSTTD800P	80			
CZB1JSTTD101P	100			
CZB1JSTTD121P	120			
CZB1JSTTD221P	220	0.35	300	
CZB1JSTTD301P	300			
CZB1JSTTD601P	600			
CZB1JSTTD102P	1000	0.65	200	
CZB1JSTTD102P	1000	0.80		
CZB2AFTTD110P	11	0.10	800	
CZB2AFTTD300P	30			
CZB2AFTTD500P	50			
CZB2AFTTD600P	60			
CZB2AFTTD800P	80	0.15	600	
CZB2AGTTD101P	100			

EMI/EMC filtering

<sup>†</sup> Impedance test method: HP4291A

<sup>††</sup> DCR test method: Keithley 580

For complete environmental specifications, please refer to pages 254-255.

applications and ratings (continued)

Part Designation	Impedance @ 100MHz † (Ω)	DC Resistance Maximum †† (Ω)	Allowable DC Current Maximum (mA)	Operating Temperature Range
CZB2AGTTD121P	120	0.25	600	-55°C to +125°C
CZB2AGTTD151P	150		500	
CZB2AGTTD201P	200	0.30	400	
CZB2AGTTD221P	220			
CZB2AGTTD301P	300			
CZB2AGTTD401P	400			
CZB2AGTTD501P	500			
CZB2AGTTD601P	600			
CZB2AGTTD601PV	600	0.25	500	
CZB2AGTTD102P	1000	0.40	300	
CZB2AGTTD152P	1500	0.55	200	
CZB2AGTTD202P	2000	0.70		
CZB2ASTTD110P	11	0.10	800	
CZB2ASTTD300P	30	0.20	600	
CZB2ASTTD600P	60			
CZB2ASTTD800P	80			
CZB2ASTTD121P	120			
CZB2ASTTD221P	220	0.30	400	
CZB2ASTTD301P	300	0.35		
CZB2ASTTD601P	600	0.40	300	
CZB2ASTTD102P	1000	0.60	200	
CZB2BFTTE190P	19	0.05	800	-55°C to +125°C
CZB2BFTTE300P	30	0.10		
CZB2BFTTE500P	50			
CZB2BFTTE600P	60			
CZB2BFTTE800P	80			
CZB2BFTTE101P	100			
CZB2BFTTE121P	120			
CZB2BFTTE151P	150	0.15	500	
CZB2BFTTE201P	200			
CZB2BFTTE221P	220	0.20	400	
CZB2BFTTE301P	300	0.30		
CZB2BFTTE501P	500	0.20	300	
CZB2BFTTE601P	600	0.40		
CZB2BGTTE102P	1000	0.60	300	
CZB2BGTTE152P	1500 @ 50MHz	0.70		
CZB2BGTTE202P	2000 @ 50MHz			
CZB2BSTTE190P	19	0.10	800	
CZB2BSTTE300P	30	0.15	600	
CZB2BSTTE600P	60			
CZB2BSTTE800P	80			
CZB2BSTTE121P	120			
CZB2BSTTE221P	220	0.25	500	
CZB2BSTTE301P	300		0.30	
CZB2BSTTE601P	600	0.35	300	
CZB2BSTTE102P	1000	0.55		

† Impedance test method: HP4291A

†† DCR test method: Keithley 580

For complete environmental specifications, please refer to pages 254-255.

EMI/EMC filtering