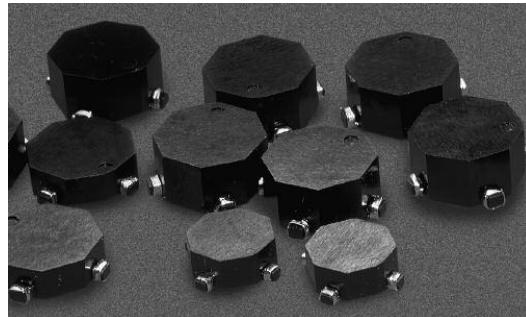


ECONO-PAC™/OCTA-PAC® OCTA-PAC® PLUS Dual winding toroid power inductors/transformers



Product features

- Surface mount magnetics that can be used as single or coupled inductors or 1:1 transformers that provide isolation between two windings
- OCTA-PAC's are designed around high frequency, low loss core material
- ECONO-PAC's are a lower cost version of OCTA-PAC's offering high saturation flux density, Iron powder core material
- OCTA-PAC PLUS's offer higher current ratings and higher saturation flux densities than OCTA-PAC and ECONO-PAC, Amorphous metal core material
- Secure 4 Terminal Mounting
- Inductor more versatile inductance combination by series or parallel connections

Octa-Pac Plus
(-1A, -2A, -3A)
discontinued October 31,
2017 or until inventory is
depleted.

Applications

- Computer and portable power devices
- LCD panels, DVD players
- Inductor: DC-DC converters
- Buck, boost, forward, and resonant converters
- Noise filtering and filter chokes
- Transformers: 1:1 300 Vdc isolation, flyback, sepic

Part number

- CTX____-__ -R(First three digits CTX; Second 2-3 digits = Inductance Value; Last 1-2 digits, product size & type)
- -R indicates RoHS compliant

Product size/type

- CTX____-1 (-1 = size; no suffix = OCTA-PAC®)
- CTX____-1P (-1 = size; P suffix = ECONO-PAC™)
- CTX____-1A (-1 = size; A suffix = OCTA-PAC® PLUS)

Environmental data

- Storage temperature range (component): -40 °C to +125 °C
- Operating temperature range: -40 °C to +125 °C (ambient plus self-temperature rise)
- Solder reflow temperature: J-STD-020 (latest revision) compliant



Part Number	PARALLEL					SERIES			
	Open Circuit Inductance μH +/-20%	Full Load Inductance μH min.	Full Load Current Adc	DC Resistance ohms max		Open Circuit Inductance μH +/-20%	Full Load Inductance μH min.	Full Load Current Adc	DC Resistance ohms max
CTX0.47-1P-R	.42	.31	5.50	.005		1.67	1.25	2.75	.021
CTX0.68-1P-R	.60	.43	5.10	.006		2.40	1.74	2.55	.025
CTX1-1P-R	1.07	.73	4.50	.008		4.28	2.92	2.25	.032
CTX2-1P-R	2.02	1.36	3.40	.013		8.08	5.44	1.70	.054
CTX5-1P-R	4.83	3.37	2.00	.040		19.31	13.47	1.00	.161
CTX8-1P-R	8.08	5.31	1.80	.052		32.33	21.23	.90	.207
CTX10-1P-R	9.62	6.23	1.70	.057		38.48	24.94	.85	.227
CTX15-1P-R	15.03	9.62	1.40	.087		60.12	38.47	.70	.348
CTX20-1P-R	20.46	14.12	1.00	.158		81.83	56.47	.50	.634
CTX25-1P-R	25.40	17.07	.96	.177		101.60	68.29	.48	.708
CTX33-1P-R	32.33	22.27	.80	.250		129.32	89.06	.40	1.001
CTX50-1P-R	50.52	33.57	.70	.316		202.07	134.27	.35	1.263
CTX68-1P-R	68.40	43.65	.66	.373		273.61	174.61	.33	1.490
CTX100-1P-R	99.01	63.64	.54	.557		396.06	254.55	.27	2.227
CTX150-1P-R	150.72	96.64	.44	.844		602.87	386.56	.22	3.376
CTX200-1P-R	198.41	130.79	.36	1.208		793.65	523.16	.18	4.831
CTX300-1P-R	299.87	190.05	.32	1.525		1199.46	760.19	.16	6.100
CTX0.47-2P-R	.54	.42	5.90	.006		2.18	1.69	2.95	.024
CTX0.68-2P-R	.85	.64	5.40	.007		3.40	2.55	2.70	.029
CTX1-2P-R	1.22	.89	5.00	.008		4.90	3.57	2.50	.033
CTX2-2P-R	2.18	1.56	3.90	.014		8.70	6.26	1.95	.055
CTX5-2P-R	4.90	3.57	2.50	.032		19.58	14.26	1.25	.128
CTX8-2P-R	7.65	5.31	2.30	.040		30.60	21.23	1.15	.158
CTX10-2P-R	9.83	6.73	2.10	.045		39.30	26.92	1.05	.179
CTX15-2P-R	14.99	10.51	1.60	.085		59.98	42.02	.80	.339
CTX20-2P-R	19.58	13.37	1.50	.097		78.34	53.48	.75	.387
CTX25-2P-R	24.79	16.60	1.40	.109		99.14	66.38	.70	.436
CTX33-2P-R	32.67	21.29	1.30	.126		130.70	85.17	.65	.503
CTX50-2P-R	49.10	35.31	.82	.305		196.38	141.24	.41	1.221
CTX68-2P-R	68.85	47.93	.76	.362		275.40	191.71	.38	1.445
CTX100-2P-R	99.14	69.56	.62	.541		396.58	278.22	.31	2.162
CTX150-2P-R	148.10	100.07	.56	.665		592.42	400.27	.28	2.660
CTX200-2P-R	201.59	138.49	.46	.951		806.34	553.97	.23	3.804
CTX300-2P-R	300.42	197.52	.42	1.176		1201.70	790.08	.21	4.703
CTX0.47-3P-R	.46	.35	6.20	.006		1.85	1.42	3.10	.025
CTX0.68-3P-R	.67	.50	5.70	.007		2.66	1.98	2.85	.028
CTX1-3P-R	.91	.65	5.40	.008		3.63	2.62	2.70	.032
CTX2-3P-R	1.85	1.24	4.60	.011		7.40	4.97	2.30	.045
CTX5-3P-R	4.74	3.04	3.20	.022		18.94	12.15	1.60	.090
CTX8-3P-R	8.16	4.90	2.80	.030		32.63	19.60	1.40	.119
CTX10-3P-R	9.79	5.71	2.70	.033		39.15	22.85	1.35	.131
CTX15-3P-R	14.50	8.50	2.20	.050		58.02	34.01	1.10	.198
CTX20-3P-R	20.15	13.12	1.50	.111		80.59	52.48	.75	.443
CTX25-3P-R	25.33	16.16	1.40	.125		101.31	64.66	.70	.499
CTX33-3P-R	32.63	20.32	1.30	.146		130.54	81.30	.65	.571
CTX50-3P-R	50.02	33.06	.92	.277		200.10	132.24	.46	1.108
CTX68-3P-R	68.84	44.15	.84	.328		275.35	176.61	.42	1.312
CTX100-3P-R	101.31	65.50	.68	.501		405.22	262.02	.34	2.005
CTX150-3P-R	149.85	90.92	.64	.621		599.40	363.68	.32	2.483
CTX200-3P-R	200.10	116.51	.60	.731		800.38	466.03	.30	2.925
CTX300-3P-R	298.39	172.12	.50	.926		1193.55	688.50	.25	3.702
CTX0.47-4P-R	.49	.37	7.90	.005		1.95	1.49	3.95	.019
CTX0.68-4P-R	.76	.56	7.20	.006		3.05	2.24	3.60	.023
CTX1-4P-R	1.10	.81	5.90	.008		4.39	3.24	2.95	.033
CTX2-4P-R	1.95	1.42	4.60	.014		7.81	5.69	2.30	.055
CTX5-4P-R	5.15	3.56	3.30	.027		20.62	14.23	1.65	.107
CTX8-4P-R	7.81	5.15	3.00	.033		31.23	20.61	1.50	.131
CTX10-4P-R	9.88	6.70	2.50	.047		39.53	26.79	1.25	.187
CTX15-4P-R	14.76	9.52	2.30	.057		59.05	38.09	1.15	.228
CTX20-4P-R	20.62	13.44	1.90	.084		82.47	53.76	.95	.337
CTX25-4P-R	25.65	17.17	1.60	.115		102.60	68.68	.80	.461
CTX33-4P-R	33.21	22.93	1.30	.166		132.86	91.72	.65	.662
CTX50-4P-R	48.80	32.21	1.20	.201		195.20	128.83	.60	.805
CTX68-4P-R	67.37	43.04	1.10	.238		269.50	172.16	.55	.952
CTX100-4P-R	99.09	69.54	.72	.565		396.38	278.15	.36	2.259
CTX150-4P-R	149.45	101.46	.64	.696		597.80	405.83	.32	2.784
CTX200-4P-R	200.11	131.37	.60	.810		800.44	525.47	.30	3.240
CTX300-4P-R	298.93	188.03	.54	1.003		1195.72	752.13	.27	4.011

Part Number	PARALLEL				SERIES			
	Open Circuit Inductance μH +/-20%	Full Load Inductance μH min.	Full Load Current Adc	DC Resistance ohms max.	Open Circuit Inductance μH +/-20%	Full Load Inductance μH min.	Full Load Current Adc	DC Resistance ohms max.
CTX0.47-1-R	.40	.26	5.50	.005	1.60	1.05	2.75	.020
CTX0.68-1-R	.63	.41	4.50	.006	2.50	1.63	2.25	.024
CTX1-1-R	.90	.56	4.20	.007	3.60	2.24	2.10	.028
CTX2-1-R	2.03	1.00	4.10	.010	8.10	4.01	2.05	.040
CTX5-1-R	4.90	2.66	2.30	.030	19.60	10.64	1.15	.122
CTX8-1-R	8.10	4.08	2.00	.039	32.40	16.34	1.00	.157
CTX10-1-R	10.00	4.85	1.90	.044	40.00	19.40	.95	.176
CTX15-1-R	14.40	8.74	1.10	.080	57.60	34.96	.55	.319
CTX20-1-R	19.60	11.54	1.00	.146	78.40	46.15	.50	.583
CTX25-1-R	25.60	16.35	.74	.167	102.40	65.42	.37	.668
CTX33-1-R	32.40	19.84	.72	.293	129.60	79.37	.36	1.171
CTX50-1-R	50.63	29.34	.64	.365	202.50	117.38	.32	1.461
CTX68-1-R	67.60	39.73	.54	.516	270.40	158.92	.27	2.064
CTX100-1-R	99.23	58.72	.44	.784	396.90	234.88	.22	3.137
CTX150-1-R	148.23	85.16	.38	.965	592.90	340.64	.19	3.861
CTX200-1-R	202.50	107.60	.37	1.142	810.00	430.39	.19	4.567
CTX300-1-R	302.50	191.38	.22	1.431	1210.00	765.54	.11	5.724
CTX0.47-2-R	.42	.29	6.50	.005	1.69	1.17	3.25	.019
CTX0.68-2-R	.75	.50	5.50	.006	3.01	1.98	2.75	.024
CTX1-2-R	1.18	.76	4.60	.007	4.70	3.04	2.30	.028
CTX2-2-R	2.30	1.27	4.50	.010	9.21	5.07	2.25	.038
CTX5-2-R	4.70	2.66	3.00	.021	18.80	10.65	1.50	.084
CTX8-2-R	7.94	4.18	2.60	.027	31.77	16.72	1.30	.108
CTX10-2-R	10.58	5.18	2.50	.031	42.30	20.72	1.25	.125
CTX15-2-R	15.23	8.53	1.70	.059	60.91	34.10	.85	.236
CTX20-2-R	20.73	12.36	1.30	.107	82.91	49.46	.65	.426
CTX25-2-R	24.86	16.09	1.00	.117	99.45	64.35	.50	.466
CTX33-2-R	31.77	15.90	1.40	.105	127.09	63.59	.70	.420
CTX50-2-R	51.18	28.79	.92	.210	204.73	115.16	.46	.839
CTX68-2-R	67.87	38.71	.78	.303	271.47	154.83	.39	1.214
CTX100-2-R	99.45	57.45	.63	.457	397.81	229.79	.32	1.828
CTX150-2-R	147.39	93.46	.43	.560	589.57	373.84	.22	2.241
CTX200-2-R	198.58	122.94	.39	.796	794.30	491.76	.20	3.184
CTX300-2-R	300.80	169.06	.38	1.231	1203.20	676.24	.19	4.929
CTX0.47-3-R	.38	.27	6.00	.005	1.54	1.08	3.00	.020
CTX0.68-3-R	.60	.42	5.00	.006	2.40	1.67	2.50	.024
CTX1-3-R	.86	.57	4.80	.007	3.46	2.28	2.40	.028
CTX2-3-R	1.94	1.05	4.70	.010	7.78	4.22	2.35	.040
CTX5-3-R	4.70	2.56	3.00	.019	18.82	10.26	1.50	.077
CTX8-3-R	7.78	3.74	2.80	.025	31.10	14.98	1.40	.099
CTX10-3-R	9.60	4.38	2.70	.028	38.40	17.54	1.35	.111
CTX15-3-R	15.00	7.26	2.00	.043	60.00	29.06	1.00	.172
CTX20-3-R	20.18	10.76	1.50	.078	80.74	43.04	.75	.312
CTX25-3-R	24.58	15.64	.98	.086	98.30	62.56	.49	.346
CTX33-3-R	32.86	19.69	.96	.083	131.42	78.77	.48	.331
CTX50-3-R	50.78	27.18	.94	.239	203.14	108.71	.47	.956
CTX68-3-R	67.42	36.53	.80	.277	269.66	146.11	.40	1.109
CTX100-3-R	101.40	52.48	.70	.345	405.60	209.93	.35	1.381
CTX150-3-R	149.78	97.16	.38	.430	599.14	388.63	.19	1.718
CTX200-3-R	198.74	119.18	.39	.619	794.98	476.71	.20	2.475
CTX300-3-R	301.06	157.44	.40	.951	1204.22	629.75	.20	3.083
CTX0.47-4-R	.44	.32	7.00	.004	1.76	1.29	3.50	.016
CTX0.68-4-R	.78	.55	6.00	.005	3.14	2.21	3.00	.020
CTX1-4-R	1.23	.85	5.00	.006	4.90	3.41	2.50	.024
CTX2-4-R	1.76	1.06	4.90	.007	7.06	4.24	2.45	.028
CTX5-4-R	4.90	2.59	4.40	.014	19.60	10.37	2.20	.056
CTX8-4-R	8.28	4.29	3.50	.018	33.12	17.14	1.75	.072
CTX10-4-R	9.60	4.82	3.40	.019	38.42	19.28	1.70	.078
CTX15-4-R	14.16	6.76	3.00	.024	56.64	27.03	1.50	.096
CTX20-4-R	19.60	10.68	2.10	.055	78.40	42.73	1.05	.220
CTX25-4-R	25.92	13.32	2.00	.063	103.68	53.27	1.00	.253
CTX33-4-R	33.12	16.82	1.80	.072	132.50	67.27	.90	.287
CTX50-4-R	50.18	25.03	1.50	.111	200.70	100.11	.75	.443
CTX68-4-R	67.08	35.29	1.20	.157	268.32	141.15	.60	.630
CTX100-4-R	99.23	54.56	.92	.302	396.90	218.25	.46	1.210
CTX150-4-R	148.23	77.17	.82	.372	592.90	308.69	.41	1.488
CTX200-4-R	200.70	111.08	.64	.545	802.82	444.32	.32	2.180
CTX300-4-R	298.12	147.92	.62	.672	1192.46	591.66	.31	2.687

Part Number	Rated Inductance (μH)	Parallel Ratings						Series Ratings					
		OCL (1) nominal +/-25% (μH)	I sat. (2) Amperes Peak	I rms. (3) Amperes	DCR Ω (4) max. @ 20°C.	Volt (7) μ-Sec	OCL (1) nominal +/-25% (μH)	I sat. (2) Amperes Peak	I rms. (3) Amperes	DCR Ω (4) max. @ 20°C.	Volt (7) μ-Sec		
CTX0.33-1A-R	0.33	0.402	12.5	10.0	0.0037	.93	1.61	6.25	4.98	0.015	1.86		
CTX0.68-1A-R	0.68	0.752	9.4	9.0	0.0046	1.24	3.01	4.69	4.48	0.0185	2.49		
CTX1-1A-R	1.0	1.18	7.5	7.26	0.0070	1.55	4.70	3.75	3.63	0.0282	3.11		
CTX2-1A-R	2.0	2.30	5.36	5.64	0.012	2.17	9.21	2.68	2.82	0.0470	4.35		
CTX5-1A-R	5.0	4.70	3.75	4.27	0.020	3.11	18.8	1.88	2.13	0.082	6.21		
CTX8-1A-R	8.0	7.94	2.88	3.37	0.033	4.04	31.77	1.44	1.69	0.130	8.08		
CTX10-1A-R	10.0	10.58	2.5	2.84	0.046	4.66	42.30	1.25	1.42	0.183	9.32		
CTX15-1A-R	15.0	15.23	2.08	2.07	0.087	5.59	60.91	1.04	1.03	0.348	11.2		
CTX20-1A-R	20.0	20.73	1.79	1.71	0.127	6.52	82.91	0.89	0.86	0.507	13.0		
CTX25-1A-R	25.0	24.86	1.63	1.46	0.173	7.14	99.45	0.82	0.73	0.693	14.3		
CTX33-1A-R	33.0	34.26	1.39	1.22	0.249	8.39	137.1	0.69	0.61	0.95	16.8		
CTX50-1A-R	50.0	51.18	1.14	0.99	0.381	10.3	204.7	0.57	0.59	1.124	20.5		
CTX68-1A-R	68.0	67.87	0.99	0.92	0.437	11.8	271.3	0.49	0.46	1.749	23.6		
CTX100-1A-R	100.0	99.45	0.82	0.74	0.686	14.3	397.8	0.41	0.37	2.745	28.6		
CTX150-1A-R	150.0	147.4	0.67	0.67	0.832	17.4	589.6	0.33	0.33	3.329	34.8		
CTX200-1A-R	200.0	198.6	0.58	0.62	0.963	20.2	794.3	0.29	0.21	3.854	40.4		
CTX300-1A-R	300.0	300.8	0.47	0.56	1.181	24.9	1203	0.23	0.23	4.726	49.7		
CTX0.33-2A-R	0.33	0.284	18.8	10.9	0.0033	.85	1.14	9.38	5.47	0.0132	1.71		
CTX0.68-2A-R	0.68	0.675	12.5	9.4	0.0045	1.26	2.70	6.25	4.68	0.0180	2.56		
CTX1-2A-R	1.0	1.26	9.38	8.22	0.0058	1.71	5.06	4.69	4.11	0.0233	3.42		
CTX2-2A-R	2.0	1.9	7.50	6.74	0.0090	2.14	7.90	3.75	3.37	0.035	4.27		
CTX5-2A-R	5.0	5.06	4.69	4.34	0.021	3.2	20.22	2.34	2.17	0.084	6.84		
CTX8-2A-R	8.0	7.90	3.75	3.50	0.032	4.27	31.60	1.88	1.75	0.129	8.55		
CTX10-2A-R	10.0	11.38	3.13	2.89	0.047	5.13	45.50	1.56	1.45	0.188	10.3		
CTX15-2A-R	15.0	15.48	2.68	2.69	0.054	5.98	61.94	1.34	1.35	0.218	12.0		
CTX20-2A-R	20.0	22.22	2.34	2.24	0.078	6.84	80.90	1.17	1.12	0.313	13.7		
CTX25-2A-R	25.0	25.60	2.08	1.89	0.111	7.69	102.38	1.04	0.94	0.443	15.4		
CTX33-2A-R	33.0	34.84	1.79	1.56	0.162	8.97	139.4	0.89	0.78	0.649	17.9		
CTX50-2A-R	50.0	49.38	1.50	1.28	0.240	10.7	197.5	0.75	0.64	0.961	21.4		
CTX68-2A-R	68.0	66.14	1.29	1.07	0.342	12.4	265.8	0.65	0.54	1.367	24.8		
CTX100-2A-R	100.0	102.38	1.04	0.75	0.695	15.4	409.5	0.52	0.38	2.778	30.8		
CTX150-2A-R	150.0	152.9	0.85	0.68	0.842	18.8	611.8	0.43	0.34	3.366	37.6		
CTX200-2A-R	200.0	197.5	0.75	0.64	0.950	21.4	790.0	0.38	0.32	3.800	42.7		
CTX300-2A-R	300.0	303.7	0.60	0.58	1.174	26.5	1215	0.30	0.29	4.697	53.0		
CTX0.33-3A-R	0.33	0.368	15.0	11.4	0.0032	0.97	1.47	7.50	5.72	0.0128	1.93		
CTX0.68-3A-R	0.68	0.688	11.3	9.3	0.0048	1.29	2.75	5.63	4.64	0.0194	2.58		
CTX1-3A-R	1.0	1.08	9.0	8.38	0.0059	1.61	4.20	4.50	4.19	0.0238	3.22		
CTX2-3A-R	2.0	2.11	6.43	7.26	0.0079	2.26	8.43	3.21	3.63	0.0317	4.51		
CTX5-3A-R	5.0	5.20	4.09	5.24	0.015	3.54	20.81	2.05	2.62	0.061	7.09		
CTX8-3A-R	8.0	8.43	3.21	4.23	0.023	4.51	33.77	1.61	2.12	0.093	9.02		
CTX10-3A-R	10.0	9.68	3.00	3.64	0.032	4.83	38.70	1.50	1.82	0.126	9.67		
CTX15-3A-R	15.0	15.52	2.37	3.25	0.039	6.12	62.09	1.18	1.63	0.158	12.2		
CTX20-3A-R	20.0	20.81	2.05	2.43	0.071	7.09	83.25	1.02	1.22	0.282	14.2		
CTX25-3A-R	25.0	24.77	1.88	2.34	0.076	7.73	99.07	0.94	1.17	0.306	15.5		
CTX33-3A-R	33.0	33.71	1.61	1.93	0.112	9.02	134.8	0.80	0.96	0.449	18.0		
CTX50-3A-R	50.0	49.71	1.32	1.56	0.171	11.0	198.8	0.66	0.78	0.686	21.9		

1) Open Circuit Inductance Test Parameters: 100kHz, 0.250 Vrms, 0.0 Adc Parallel: (1,4 - 3,2) Series: (1 - 3) tie (2 - 4)

2) Peak current for approximately 30% roll-off

3) RMS current, delta temp. of 40° C ambient temperature of 85° C

4) DCR @ 20°C

5) Hipot rating: winding to winding: 300Vdc min.

6) Turns Ratio: (1-2):(4-3) 1:1

7) Applied volt-time product (v-us) across the inductor. This value represents the applied V-us at 300KHz necessary to generate a core loss equal to 10% of the total losses for a 40°C temperature rise.

		Parallel Ratings					Series Ratings				
Part Number	Rated Inductance (μH)	OCL (1) nominal +/-25% (μH)	I sat. (2) Amperes Peak	I rms. (3) Amperes	DCR Ω (4) max. @ 20°C	Volt (7) μSec	OCL (1) nominal +/-25% (μH)	I sat. (2) Amperes Peak	I rms. (3) Amperes	DCR Ω (4) max. @ 20°C	Volt (7) μSec
CTX68-3A-R	68.0	68.80	1.13	1.28	0.253	12.9	275.2	0.56	0.64	1.013	25.8
CTX100-3A-R	100.0	99.07	0.94	1.05	0.379	15.5	396.3	0.47	0.53	1.514	30.9
CTX150-3A-R	150.0	149.7	0.76	0.86	0.571	19.0	598.7	0.38	0.43	2.283	38.0
CTX200-3A-R	200.0	198.8	0.66	0.71	0.829	21.9	795.3	0.33	0.35	3.315	43.8
CTX300-3A-R	300.0	296.2	0.54	0.56	1.309	26.7	1185	0.27	0.28	5.236	53.5
CTX0.33-4A-R	0.33	0.313	22.5	12.2	0.0030	0.98	1.25	11.25	6.09	0.0119	1.96
CTX0.68-4A-R	0.68	0.744	15.0	10.6	0.0040	1.47	2.98	7.50	5.28	0.0158	2.94
CTX1-4A-R	1.0	1.39	11.25	9.23	0.0052	1.96	5.57	5.63	4.62	0.0207	3.93
CTX2-4A-R	2.0	2.18	9.00	8.38	0.0063	2.45	8.70	4.50	4.19	0.0251	4.91
CTX5-4A-R	5.0	4.26	6.43	7.21	0.0085	3.44	17.05	3.21	3.61	0.0339	6.87
CTX8-4A-R	8.0	8.70	4.50	5.49	0.015	4.91	34.80	2.25	2.74	0.059	9.81
CTX10-4A-R	10.0	10.53	4.09	4.67	0.020	5.40	42.11	2.05	2.33	0.081	10.8
CTX15-4A-R	15.0	14.70	3.46	3.87	0.029	6.38	58.81	1.73	1.94	0.117	12.8
CTX20-4A-R	20.0	19.58	3.00	3.62	0.034	7.36	78.30	1.50	1.81	0.135	14.7
CTX25-4A-R	25.0	25.14	2.65	3.02	0.048	8.34	100.51	1.32	1.51	0.193	16.7
CTX33-4A-R	33.0	34.80	2.25	2.49	0.071	9.81	139.2	1.13	1.25	0.283	19.6
CTX50-4A-R	50.0	50.11	1.88	2.05	0.104	11.8	200.4	0.94	1.03	0.418	23.6
CTX68-4A-R	68.0	68.21	1.61	1.70	0.153	13.7	272.8	0.80	0.85	0.612	27.5
CTX100-4A-R	100.0	100.57	1.32	1.37	0.235	16.7	402.3	0.66	0.69	0.939	33.4
CTX150-4A-R	150.0	153.5	1.07	1.10	0.365	20.6	613.9	0.54	0.55	1.462	41.2
CTX200-4A-R	200.0	200.4	0.94	0.92	0.521	23.6	801.8	0.47	0.46	2.085	47.1
CTX300-4A-R	300.0	302.8	0.76	0.75	0.787	29.0	1211	0.38	0.37	3.148	57.9

1) Open Circuit Inductance Test Parameters: 100kHz, 0.250 Vrms, 0.0 Adc
Parallel: (1,4 - 3,2) Series: (1 - 3) tie (2 - 4)

2) Peak current for approximately 30% roll-off

3) RMS current, delta temp. of 40° C ambient temperature of 85° C

4) DCR @ 20°C

5) Hipot rating: winding to winding: 300Vdc min.

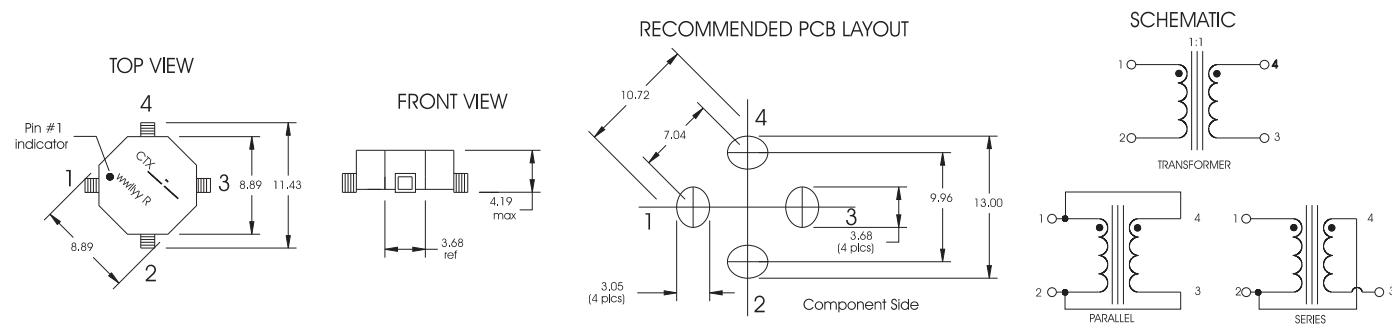
6) Turns Ratio: (1-2):(4-3) 1:1

7) Applied volt-time product (v-us) across the inductor. This value represents the applied V-us at 300KHz necessary to generate a core loss equal to 10% of the total losses for a 40°C temperature rise.

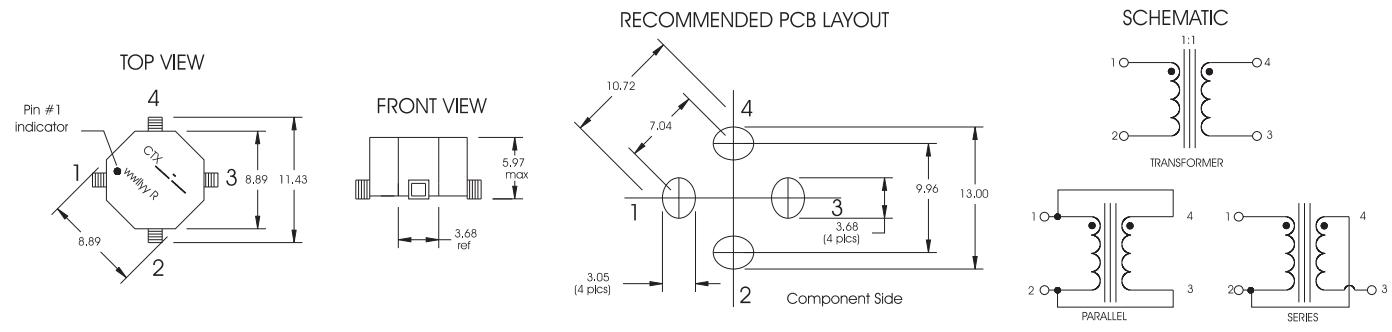
Octa-Pac Plus
(-1A, -2A-3A) discontinued
October 31, 2017 or until
inventory is depleted.

Mechanical Diagrams

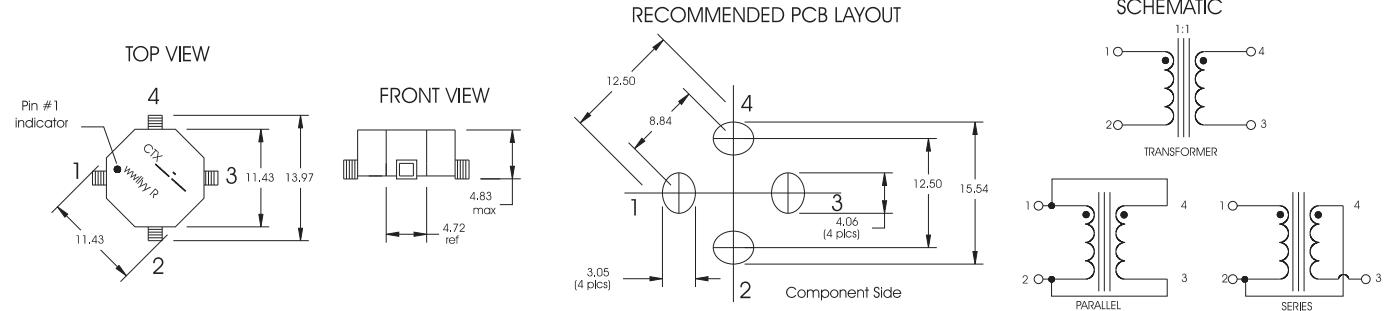
CTX 1, 1P, 1A Series



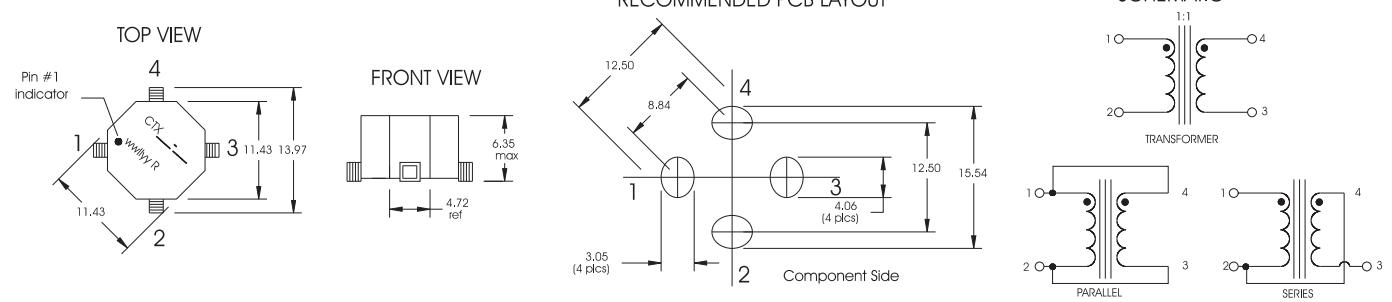
CTX 2, 2P, 2A Series



CTX 3, 3P, 3A Series



CTX 4, 4P, 4A Series

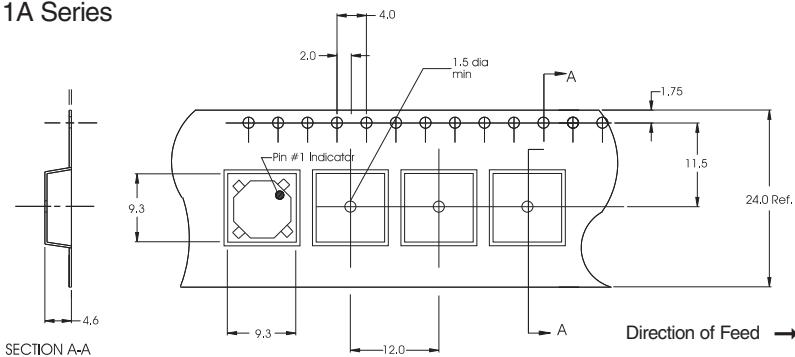


Dimensions in Millimeters.

wwlyy = (date code) R = revision level

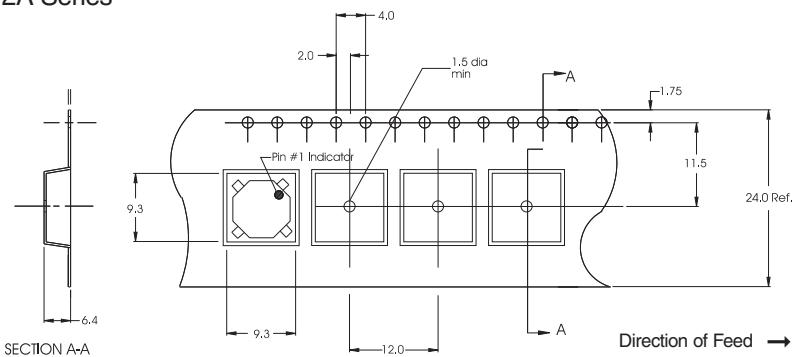
Packaging Information

CTX 1, 1P, 1A Series



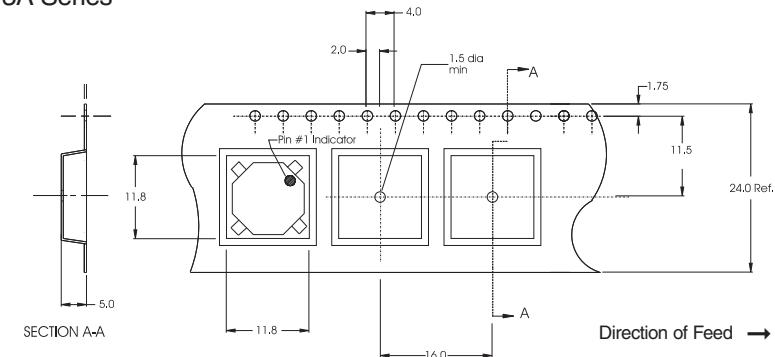
Parts packaged on 13" Diameter reel,
1,100 parts per reel.

CTX 2, 2P, 2A Series



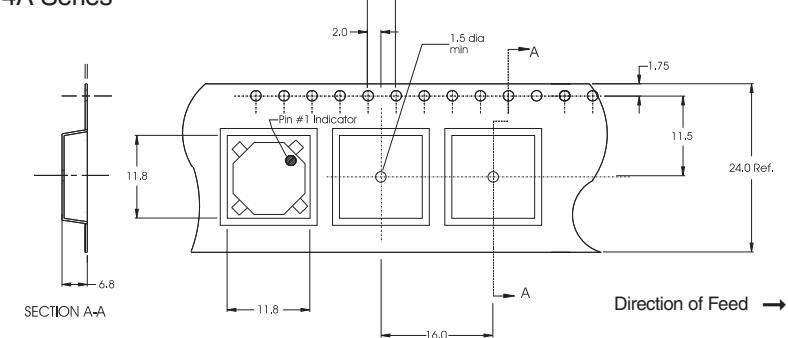
Parts packaged on 13" Diameter reel,
800 parts per reel.

CTX 3, 3P, 3A Series



Parts packaged on 13" Diameter reel,
800 parts per reel.

CTX 4, 4P, 4A Series

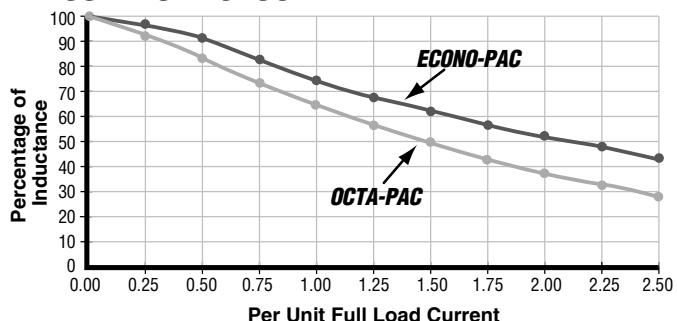


Parts packaged on 13" Diameter reel,
600 parts per reel.

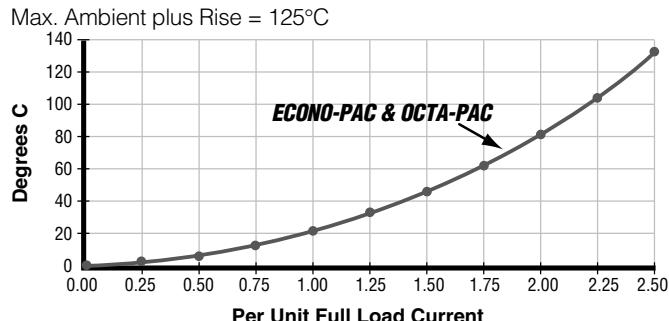
Dimensions are in millimeters.

Performance Characteristics

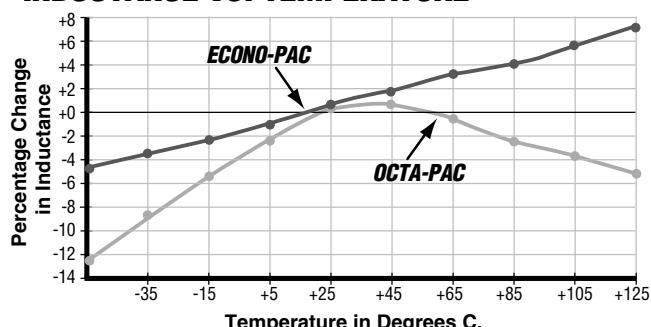
INDUCTANCE VS. CURRENT



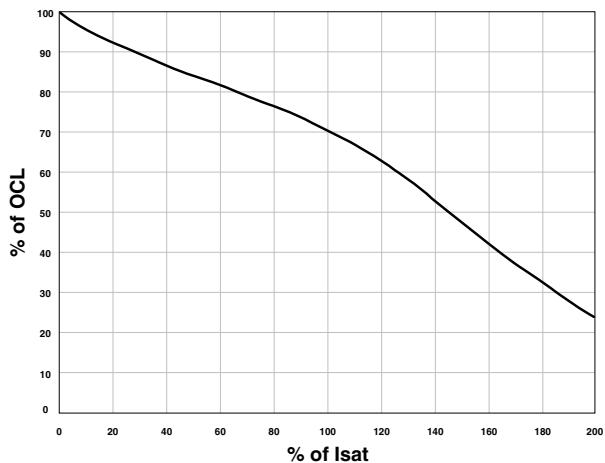
TEMPERATURE RISE VS. RATED CURRENT



INDUCTANCE VS. TEMPERATURE



OCTA-PAC® PLUS Typical Inductance vs. DC Current



- INDUCTANCE VS. CURRENT:

Inductance will fall off as DC Current is increased.
(See Inductance vs. Current graph).

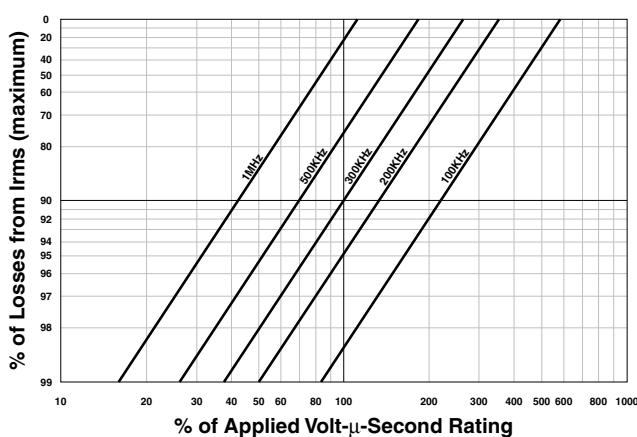
- FREQUENCY RESPONSE:

Wide-band frequency response to 1 megaHertz.

- CURRENT LIMITATION:

The maximum allowable currents are defined by the internal "hot-spot" temperatures which are limited to 130°C, including ambient.

OCTA-PAC® PLUS Winding Loss Derating with Core Loss



Solder Reflow Profile

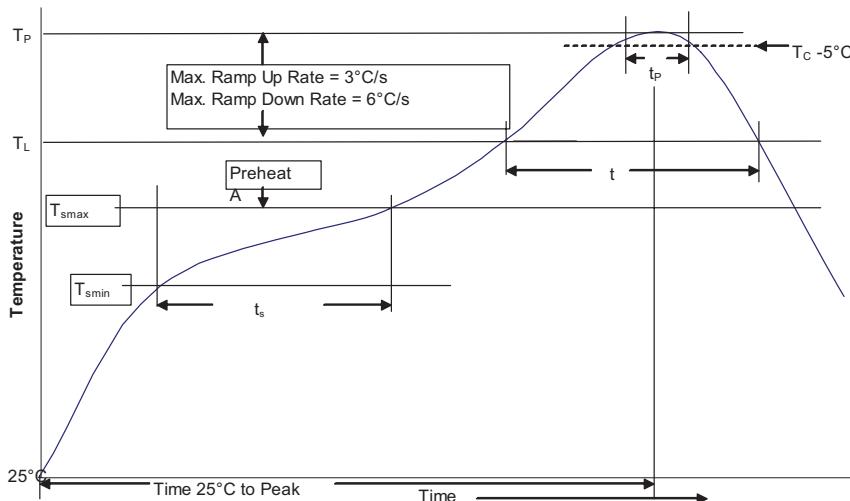


Table 1 - Standard SnPb Solder (T_c)

Package	Volume mm ³	Volume mm ³
Thickness	<350	≥350
<2.5mm	235°C	220°C
≥2.5mm	220°C	220°C

Table 2 - Lead (Pb) Free Solder (T_c)

Package	Volume mm ³	Volume mm ³	Volume mm ³
Thickness	<350	350 - 2000	>2000
<1.6mm	260°C	260°C	260°C
1.6 - 2.5mm	260°C	250°C	245°C
>2.5mm	250°C	245°C	245°C

Reference JDEC J-STD-020

Profile Feature	Standard SnPb Solder	Lead (Pb) Free Solder
Preheat and Soak		
• Temperature min. (T_{smin})	100°C	150°C
• Temperature max. (T_{smax})	150°C	200°C
• Time (T_{smin} to T_{smax}) (t_s)	60-120 Seconds	60-120 Seconds
Average ramp up rate T_{smax} to T_p	3°C/ Second Max.	3°C/ Second Max.
Liquidous temperature (T_L)	183°C	217°C
Time at liquidous (t_L)	60-150 Seconds	60-150 Seconds
Peak package body temperature (T_p)*	Table 1	Table 2
Time (t_p)** within 5 °C of the specified classification temperature (T_c)	20 Seconds**	30 Seconds**
Average ramp-down rate (T_p to T_{smax})	6°C/ Second Max.	6°C/ Second Max.
Time 25°C to Peak Temperature	6 Minutes Max.	8 Minutes Max.

* Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

** Tolerance for time at peak profile temperature (t_p) is defined as a supplier minimum and a user maximum.

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