

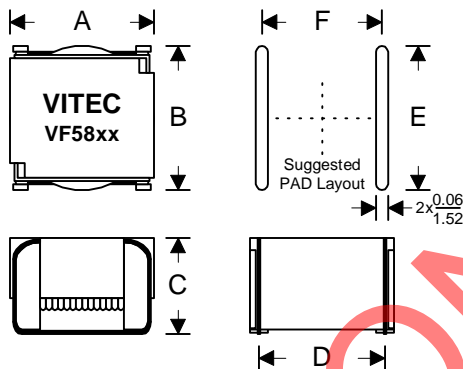
TYPE 55P, VF, VK

SURFACE MOUNT AND THROUGH HOLE INDUCTORS

FEATURES

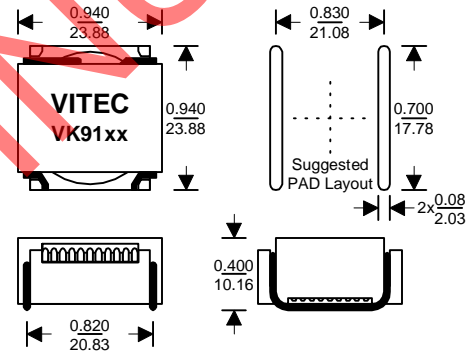
- Designed for use in National Semiconductor's 150 KHz Simple Switcher.
- Very low cost.
- Operating temperature: -30°C to +130°C.
- Materials meet flammability requirement of UL94V-0.
- Available in surface mount and through hole versions.

DRAWING A



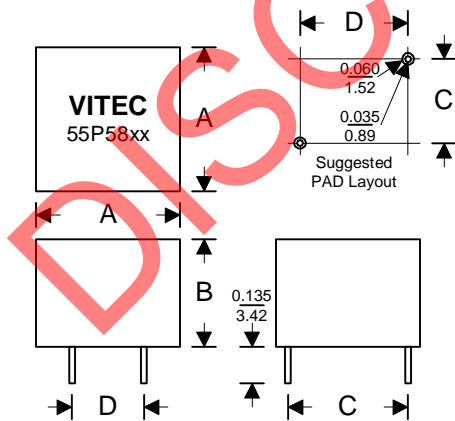
Dimensions Inches/mm +/- 0.01" Unless noted

DRAWING B



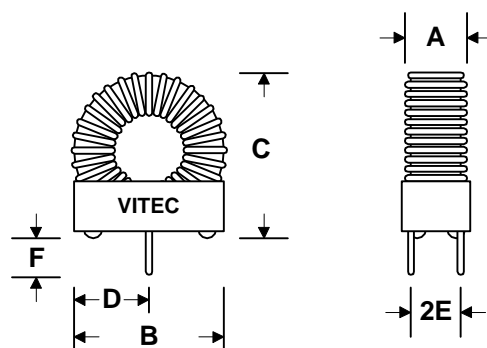
Dimensions Inches/mm +/- 0.01" Unless noted

DRAWING C



Dimensions Inches/mm +/- 0.01" Unless noted

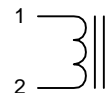
DRAWING D



Dimensions Inches/mm +/- 0.01" Unless noted

Notes: -

SCHEMATIC



TYPE 55P, VF, VK

SURFACE MOUNT AND THROUGH HOLE INDUCTORS

ELECTRICAL CHARACTERISTICS @ +25°C

Part Number				Inductance	Rated Current	ET	DCR	Dimension Code	
Classic		RoHS Compliant						uH	Amps DC
THT	SMD	THT	SMD	NOM	MIN	MAX	NOM		
55P5801	VF5801	55PR5801	VFR5801	259	0.13	23.10	3.40	C1	A1
55P5802	VF5802	55PR5802	VFR5802	178	0.16	16.50	2.80	C1	A1
55P5803	VF5803	55PR5803	VFR5803	118	0.20	13.20	1.80	C1	A1
55P5804	VF5804	55PR5804	VFR5804	79	0.25	9.90	1.50	C1	A1
55P5805	VF5805	55PR5805	VFR5805	55	0.30	6.60	1.00	C1	A1
55P5806	VF5806	55PR5806	VFR5806	39	0.34	6.60	0.80	C1	A1
55P5807	VF5807	55PR5807	VFR5807	26	0.45	6.60	0.62	C1	A1
55P5808	VF5808	55PR5808	VFR5808	374	0.20	75.90	2.70	C2	A2
55P5809	VF5809	55PR5809	VFR5809	256	0.25	33.00	2.20	C2	A2
55P5810	VF5810	55PR5810	VFR5810	176	0.30	26.40	1.40	C2	A2
55P5811	VF5811	55PR5811	VFR5811	118	0.38	19.80	1.20	C2	A2
55P5812	VF5812	55PR5812	VFR5812	78	0.46	16.50	0.80	C2	A2
55P5813	VF5813	55PR5813	VFR5813	55	0.56	13.20	0.50	C2	A2
55P5814	VF5814	55PR5814	VFR5814	39	0.68	9.90	0.30	C2	A2
55P5815	VF5815	55PR5815	VFR5815	26	0.84	6.60	0.20	C2	A2
55P5816	VF5816	55PR5816	VFR5816	17	1.02	6.60	0.10	C2	A2
55P5817	VF5817	55PR5817	VFR5817	375	0.36	75.90	1.30	C3	A3
55P5818	VF5818	55PR5818	VFR5818	252	0.44	49.50	0.90	C3	A3
55P5819	VF5819	55PR5819	VFR5819	173	0.54	36.30	0.60	C3	A3
55P5820	VF5820	55PR5820	VFR5820	115	0.67	29.70	0.40	C3	A3
55P5821	VF5821	55PR5821	VFR5821	78	0.82	23.10	0.30	C3	A3
55P5822	VF5822	55PR5822	VFR5822	54	1.00	16.50	0.20	C3	A3
55P5823	VF5823	55PR5823	VFR5823	38	1.20	13.20	0.10	C3	A3
55P5824	VF5824	55PR5824	VFR5824	26	1.48	9.90	0.10	C3	A3
55P5825	VF5825	55PR5825	VFR5825	18	1.81	9.90	0.06	C3	A3
55P5826	VF5826	55PR5826	VFR5826	377	0.68	75.90	1.00	C4	A4
55P5827	VF5827	55PR5827	VFR5827	248	0.83	72.60	0.60	C4	A4
55P5828	VF5828	55PR5828	VFR5828	168	1.02	56.10	0.40	C4	A4
55P5829	VF5829	55PR5829	VFR5829	112	1.26	42.90	0.30	C4	A4
55P5830	VF5830	55PR5830	VFR5830	77	1.54	33.00	0.20	C4	A4
55P5831	VF5831	55PR5831	VFR5831	53	1.87	26.40	0.13	C4	A4
55P5832	VF5832	55PR5832	VFR5832	37	2.24	19.80	0.10	C4	A4
55P5833	VF5833	55PR5833	VFR5833	24	2.74	16.50	0.07	C4	A4
55P9164	VF9164	55PR9164	VFR9164	17	3.00	13.20	0.05	D1	A4
55P9165	VK9165	55PR9165	VKR9165	250	1.50	72.60	0.23	D3	B
55P9166	VK9166	55PR9166	VKR9166	168	1.81	75.90	0.18	D3	B
55P9167	VK9167	55PR9167	VKR9167	114	2.22	62.70	0.10	D3	B
55P9168	VK9168	55PR9168	VKR9168	77	2.70	52.80	0.09	D3	B
55P9169	VK9169	55PR9169	VKR9169	53	3.00	42.90	0.08	D3	B
55P9170	VK9170	55PR9170	VKR9170	38	3.00	29.70	0.05	D3	B
55P9171	VF9171	55PR9171	VFR9171	25	3.00	19.80	0.04	D2	A5
55P9172	N/A	55PR9172	N/A	167	2.50	75.90	0.14	D4	N/A
55P9173	N/A	55PR9173	N/A	110	3.00	75.90	0.09	D4	N/A
55P9174	VK9174	55PR9174	VKR9174	77	3.00	59.40	0.08	D3	B

DIMENSIONS

	Dimensions for drawing A (SMD)						Dimensions for drawing C (THT)				Dimensions for drawing D (THT)							
	A	B	C	D	E	F	A	B	C	D	A	B	C	D	E	F		
A1	0.340 8.64	0.340 8.64	0.270 6.86	0.260 6.60	0.300 7.62	0.270 6.86	C1	0.360 9.14	0.310 7.87	0.250 6.35	0.250 6.35	D1	0.340 8.64	0.580 14.73	0.650 16.51	0.290 7.37	0.110 2.79	0.130 3.30
A2	0.435 11.05	0.440 11.18	0.360 9.14	0.350 8.89	0.400 10.16	0.360 9.14	C2	0.400 10.16	0.300 7.62	0.300 7.62	0.300 7.62	D2	0.450 11.43	0.650 16.51	0.700 17.73	0.325 8.26	0.150 3.81	0.130 3.30
A3	0.565 14.35	0.570 14.48	0.360 9.14	0.450 11.43	0.520 13.21	0.460 11.68	C3	0.495 12.57	0.375 9.52	0.375 9.52	0.375 9.52	D3	0.450 11.43	0.830 21.08	0.950 24.13	0.415 10.54	0.150 3.81	0.130 3.30
A4	0.600 15.24	0.620 15.75	0.390 9.91	0.500 12.70	0.550 13.97	0.510 12.95	C4	0.635 16.13	0.365 9.27	0.500 12.70	0.300 7.62	D4	0.600 15.24	0.950 24.13	1.00 25.40	0.475 12.07	0.225 5.72	0.130 3.30
A5	0.670 17.02	0.700 17.78	0.390 9.91	0.580 14.73	0.620 15.75	0.590 14.99												

Add an "R" to the part number after "P" for the RoHS compliant version (i.e. 55PR5801 is the RoHS compliant version of 55P5801).