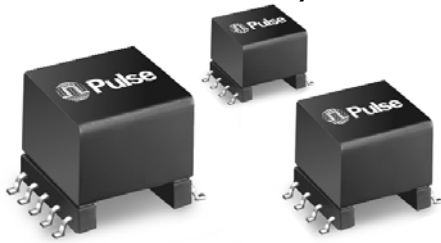


HIGH FREQUENCY CONVENTIONAL WOUND MAGNETICS

EP Platforms - EP7, EP10 and EP13



-  Ideal for PoE
-  Transformers and Inductors
-  Power: 3W to 15W
-  Three Different SMT Platforms
-  Custom designs available

Electrical Specifications @ 25°C — Operating Temperature -40°C to 125°C

TRANSFORMERS											
Part Number	Application ²	Turns Ratio			Primary Secondary Isolation	Primary Inductance (μH ±10%)	Leakage Inductance (μH MAX)	DCR (mΩ MAX)			
		Pri.	Sec.	Pri. Aux.				Pri.	Pri. Aux.	Sec. A	Sec. B
EP7 - 8 Pin SMT - (13.2mm x 10.7mm x 11.4mm MAX)											
PA0699	10W Forward Transformer Vin=38-57v, Freq.=300kHz Vout=5v/10W, 10v/20mA	1	0.212	0.484	1500Vdc Operational	1330	2	750	890	35	N/A
PA1130	3W Flyback Transformer Vin=33-57v, Freq.=200kHz Vout=3.3v/3W, 8v/20mA	1	0.083	0.208	1500Vdc Operational	500	7.5	1750	215	15	N/A
PA1131	3W Flyback Transformer Vin=33-57v, Freq.=200kHz Vout=5.0v/3W, 8v/20mA	1	0.125	0.208	1500Vdc Operational	500	7.5	1750	215	35	N/A
PA1132	3W Flyback Transformer Vin=33-57v, Freq.=200kHz Vout=12v/3W, 8v/20mA	1	0.286	0.204	1500Vdc Operational	521	7.5	1750	220	100	N/A
EP10 - 8 Pin SMT - (15.2mm x 12.7mm x 11.4mm MAX)											
PB2115	10W Flyback Transformer Vin=36-72v, Freq.=300kHz Vout=3.3v/10W, 5.0v/100mA	1	0.100	0.150	1500Vdc Operational	25.2	2	250	20	3.25	N/A
PA1133	7W Flyback Transformer Vin=33-57v, Freq.=200kHz Vout=3.3v/7W, 8v/20mA	1	0.083	0.208	1500Vdc Operational	253	7.5	420	115	7.5	N/A
PA1134	7W Flyback Transformer Vin=33-57v, Freq.=200kHz Vout=5.0v/7W, 8v/20mA	1	0.125	0.208	1500Vdc Operational	253	7.5	420	115	16	N/A
PA1135	3W Flyback Transformer Vin=33-57v, Freq.=200kHz Vout=12v/7W, 8v/20mA	1	0.286	0.204	1500Vdc Operational	264	7.5	800	115	45	N/A
EP13 - 10 Pin SMT - (17.8mm x 13.0mm x 12.7mm MAX)											
PA1136	13.5W Flyback Transformer Vin=33-57v, Freq.=200kHz Vout=3.3v/13.5W, 8v/20mA	1	0.083	0.208	1500Vdc Operational	127	7.5	440	88	6	N/A
PA1137	13.5W Flyback Transformer Vin=33-57v, Freq.=200kHz Vout=5.0v/13.5W, 8v/20mA	1	0.125	0.208	1500Vdc Operational	127	7.5	460	94	12	N/A
PA1138	13.5W Flyback Transformer Vin=33-57v, Freq.=200kHz Vout=12v/13.5W, 8v/20mA	1	0.292	0.208	1500Vdc Operational	127	7.5	460	94	55	N/A
INDUCTORS											
Part Number	Application ²	Induct. @ Irated (μH MIN)	Irated (Adc)	Turns Ratio	DCR (mΩ MAX)			Induct. 0 Adc ³ (μH ±7%)	Saturation Current ⁴ @25°	Heating Current ⁵ (A)	±12v Winding to Aux. Isolation
					Winding 1	Winding 2	Winding 3				
EP13 - 10 Pin SMT - (17.8mm x 13.0mm x 12.7mm MAX)											
PA0770	Output Inductor for PA0769 Transformer	11	4.2	1:1	35	41	N/A	11	4.5	4.2	N/A

HIGH FREQUENCY CONVENTIONAL WOUND MAGNETICS

EP Platforms - EP7, EP10 and EP13

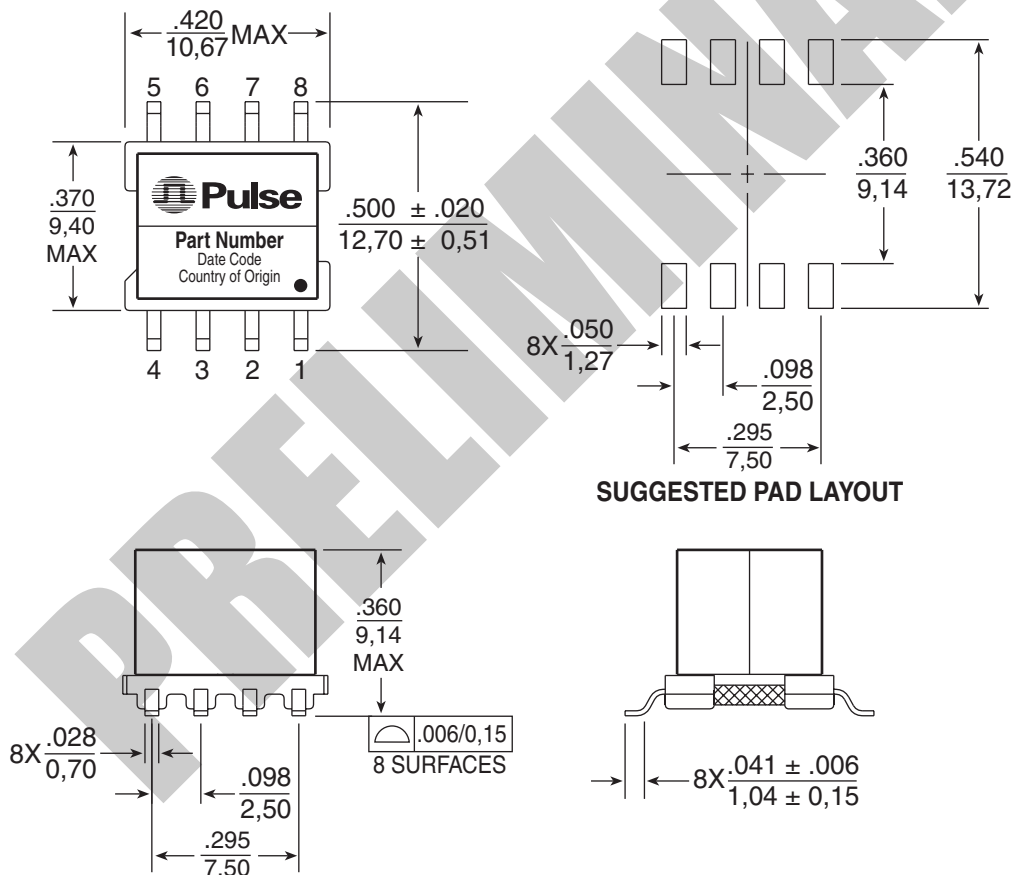


Notes:

1. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
2. The above transformers and inductors have been tested and approved by Pulse's power IC partners and are sited in the appropriate datasheet or evaluation board documentation at these companies. To determine which IC and IC partners are matched with the above Pulse part numbers please consult the IC Cross Reference on the Pulse website.
3. The rated current as listed is either 85% of the saturation current or the heating current whichever is lower.
4. The saturation current is the current which causes the inductance to drop by 20% at 25°C. This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effects) to the component.
5. The heating current is the dc current which causes the temperature of the part to increase by approximately 40°C.
6. Add 'T' suffix to the part number for Tape & Reel version (ie: PA0699T).

Mechanical

EP7



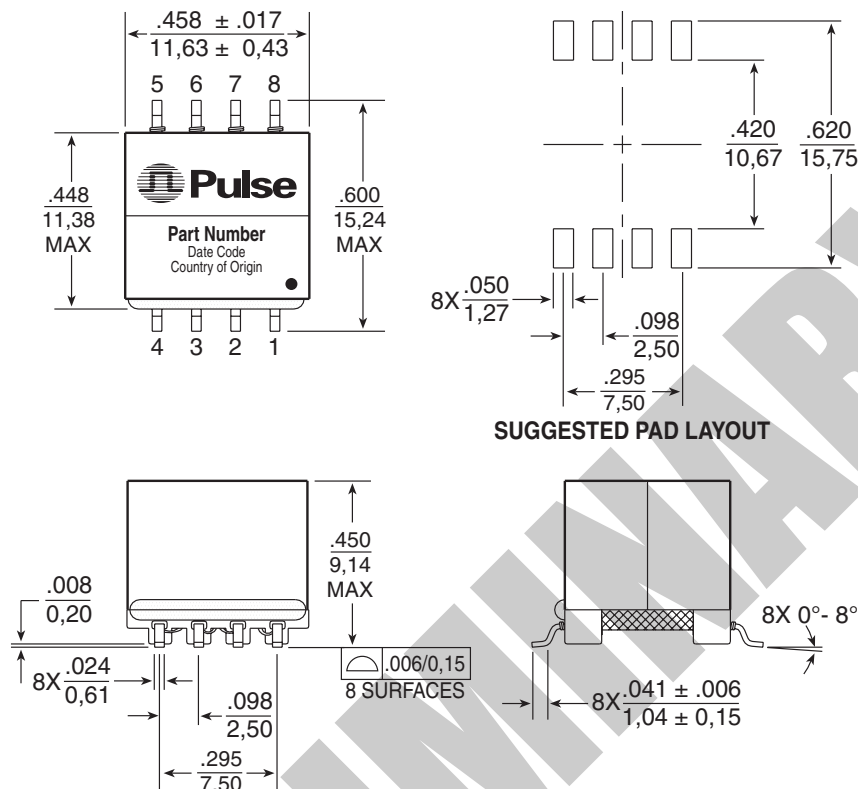
HIGH FREQUENCY CONVENTIONAL WOUND MAGNETICS

EP Platforms - EP7, EP10 and EP13

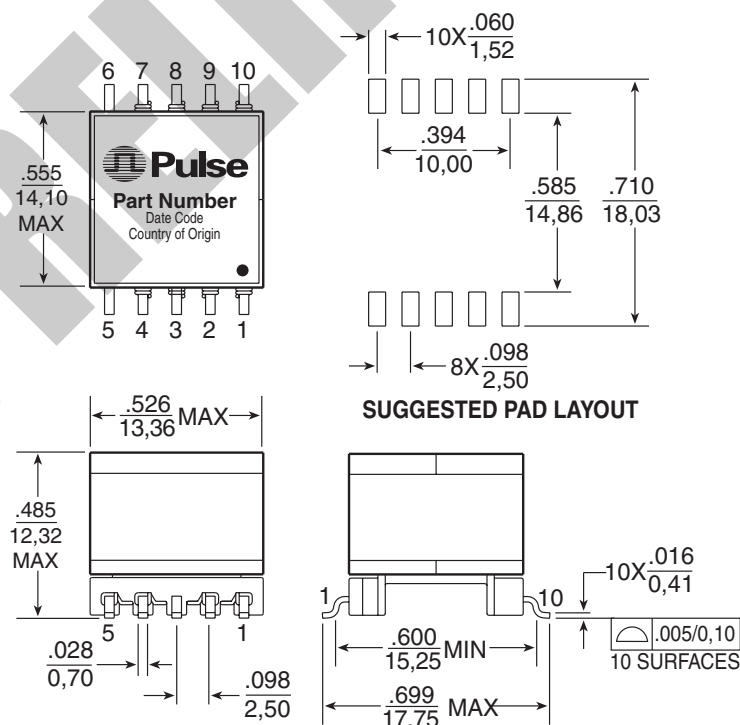


Mechanicals

EP10



EP13



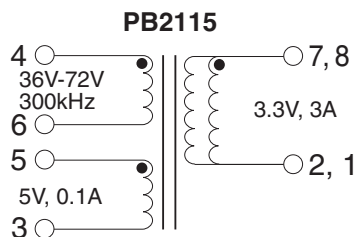
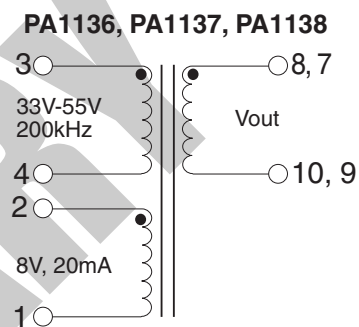
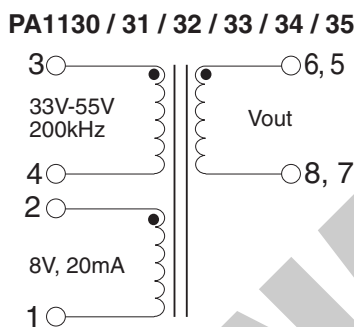
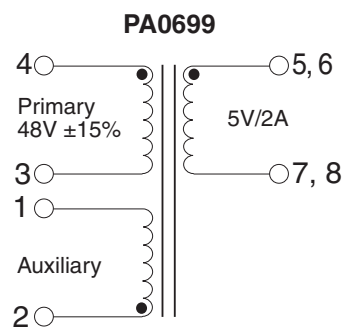
HIGH FREQUENCY CONVENTIONAL WOUND MAGNETICS

EP Platforms - EP7, EP10 and EP13



Schematics

EP7/10/13



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12220 World Trade Drive San Diego, CA 92128 U.S.A. http://www.pulseeng.com TEL: 858 674 8100 FAX: 858 674 8262	3 Huxley Road Surrey Research Park Guildford, Surrey GU2 5RE United Kingdom TEL: 44 1483 401700 FAX: 44 1483 401701	Zone Industrielle F-39270 Orgelet France TEL: 33 3 84 35 04 04 FAX: 33 3 84 25 46 41	150 Kampong Ampat #07-01/02 KA Centre Singapore 368324 TEL: 65 6287 8998 FAX: 65 6280 0080	3F-4, No. 81, Sec. 1 HsinTai Wu Road Hsi-Chih, Taipei Hsien Taiwan, R.O.C. Tel: 886 2 2698 0228 FAX: 886 2 2698 0948	9/F, Phase 2, Tai Sang Shatin Warehouse Centre 6 Wong Chuk Yeung Street Fotan, Shatin, Hong Kong TEL: 852 2788 6588 FAX: 852 2776 1055	

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