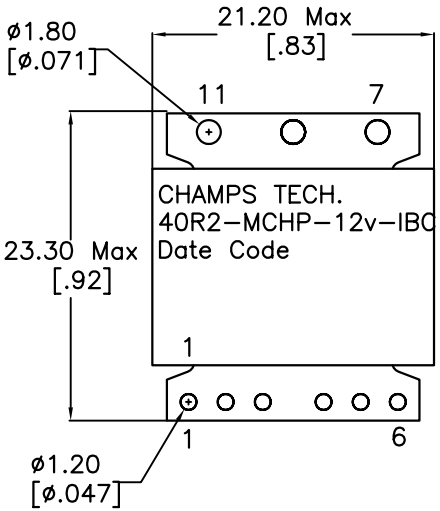
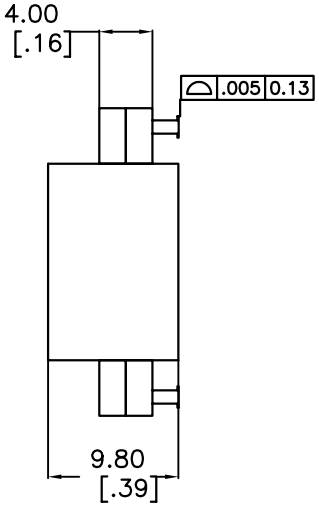
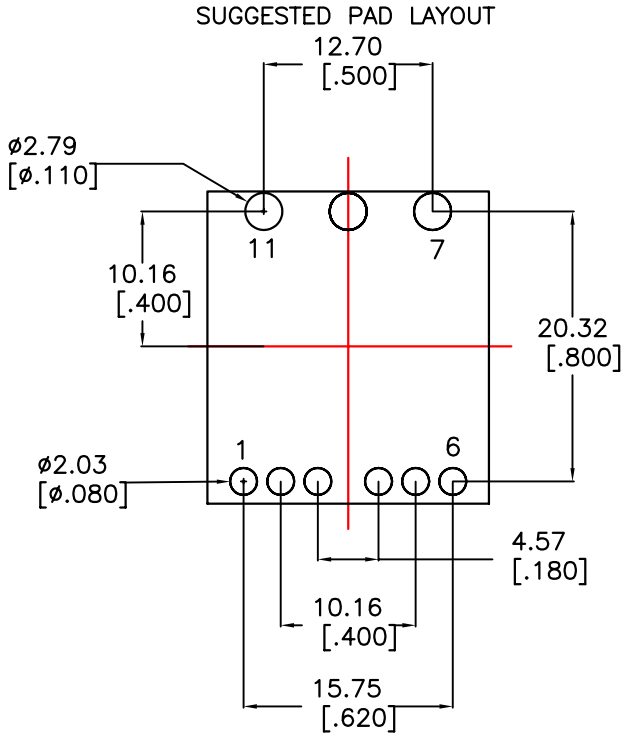
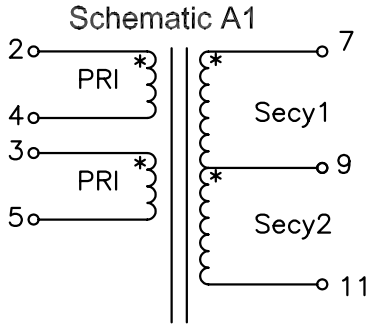






NOTES:

1. DCR [2,3–4,5]=6.5 mohm Nom, [7–9]=[9–11]= 1.6 mohm Nom
2. Inductance [2,3–4,5]= 70 uH Nom, 52 uH Min 10KHz, 0.1 VRMS @ 25C
3. Leakage Inductance [2,3–4,5] Short [7–11] = 80 nH Nom @100 KHz
4. Dielectric Strength [2–5] to [7–11] 1750 VDC,
   [2–5] to CORE 1750 VDC, [7–11] to CORE 500 VDC
5. Weight 14 grams Max | RoHS Compliant



No.	DESCRIPTION REVISIONS	DATE	HE APPR

THIRD ANGLE PROJECTION

CHAMPS TECHNOLOGIES

TOLERANCES UNLESS OTHERWISE INDICATED
.XXX 0.200
.XX 0.38
ANGLE ±

	SIGN	DATE
DRAWN	E.L.	
CHKD	J.L.	
APPR	HE	

Drwg.No.

TITLE: MCHP 12V IBC

ISSUE A | REV 01

SIZE A4 | SCALE 2:1

Champs Technologies

RoHS Compliant

- **Champs '40' Series -- Power Rating to 150W Forward Converter | Cross Ref to PA08 Series**
- **Height 7.4mm to 9.8mm | Footprint: 23.4mm x 20.1mm Max**
- **Frequency Range 100 Khz to 800 Khz Typical | Isolation: 1750 Vdc Basic**

Electrical Specifications @25C -- Operation Temperature -40ºC to +125ºC									
Part Number	Turns			Primary Induct. (µH Min)	Leakage Induct. (µH Nom)	DCR (mΩ Nom)			Sch.
	PRI. A	PRI. B	Sec.			PRI. A	PRI. B	Sec.	
Double Interleave Designs									**Max Ht 9.8 mm**
40R2-3444	3T	4T	4T 1T:1T 1T:1T	117	0.100	5	8	4.00	A1
40R2-4444	4T	4T		153	0.100	8	8		
40R2-4544	4T	5T		194	0.100	8	14		
40R2-5544	5T	5T		240	0.150	14	14		
40R2-5644	5T	6T		290	0.150	14	19		
40R2-6644	6T	6T		345	0.150	19	19		
40R2-3411	3T	4T	1T & 1T	117	0.100	5	8	0.6 & 0.6	A2
40R2-4411	4T	4T		153	0.100	8	8		
40R2-4511	4T	5T		194	0.100	8	14		
40R2-5511	5T	5T		240	0.150	14	14		
40R2-5611	5T	6T		290	0.150	14	19		
40R2-6611	6T	6T		345	0.150	19	19		
40R2-3421	3T	4T	2T & 1T	117	0.100	5	8	1.7 & 0.6	A3
40R2-4421	4T	4T		153	0.100	8	8		
40R2-4521	4T	5T		194	0.100	8	14		
40R2-5521	5T	5T		240	0.150	14	14		
40R2-5621	5T	6T		290	0.150	14	19		
40R2-6621	6T	6T		345	0.150	19	19		
40R2-4431	4T	4T	3T&1T	153	0.100	8	8	5 & 0.6	A3
40R2-4531	4T	5T		194	0.100	8	14		

Notes: Inductance is measured with both primary windings connected in series(2 to 5, with 3 and 4 shorted). Leakage Inductance is measured [2-5, series connected Primary] , with secondaries 7 thru 11 shorted.

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Champs Technologies

RoHS Compliant

Electrical Specifications @ 25ºC - Operation Temperature -40ºC to +125ºC

Part Number	Turns			Primary* Induct. (µH Min)	Leakage Induct. (µH Nom)	DCR (mΩ Nom)			Sch.
	PRI. A	PRI. B	Sec.			PRI. A	PRI. B	Sec.	
Single Interleave Designs									**Max Ht 7.4 mm**
40R1-3444	3T	4T	4T 1T&1T 1T&1T	117	0.15	9	15	7.00	A1
40R1-4444	4T	4T		153	0.20	15	15		
40R1-4544	4T	5T		194	0.25	15	26		
40R1-5544	5T	5T		240	0.30	26	26		
40R1-5644	5T	6T		290	0.35	26	36		
40R1-6644	6T	6T		345	0.40	36	36		
40R1-3411	3T	4T	1T & 1T	117	0.15	9	15	1 & 1	A2
40R1-4411	4T	4T		153	0.20	15	15		
40R1-4511	4T	5T		194	0.25	15	26		
40R1-5511	5T	5T		240	0.30	26	26		
40R1-5611	5T	6T		290	0.35	26	36		
40R1-6611	6T	6T		345	0.40	36	36		
40R1-3421	3T	4T	2T & 1T	117	0.15	9	15	4 & 1	A3
40R1-4421	4T	4T		153	0.20	15	15		
40R1-4521	4T	5T		194	0.25	15	26		
40R1-5521	5T	5T		240	0.30	26	26		
40R1-5621	5T	6T		290	0.35	26	36		
40R1-6621	6T	6T		345	0.40	36	36		
40R1-4431	4T	4T	3T&1T	153	0.20	15	15	9 & 1	A3
40R1-4531	4T	5T		194	0.30	15	26		

Notes: Inductance is measured with both primary windings connected in series(2 to 5, with 3 and 4 shorted). Leakage Inductance is measured with Primaries [2-5] in series and secondaries 7 thru 11 shorted.

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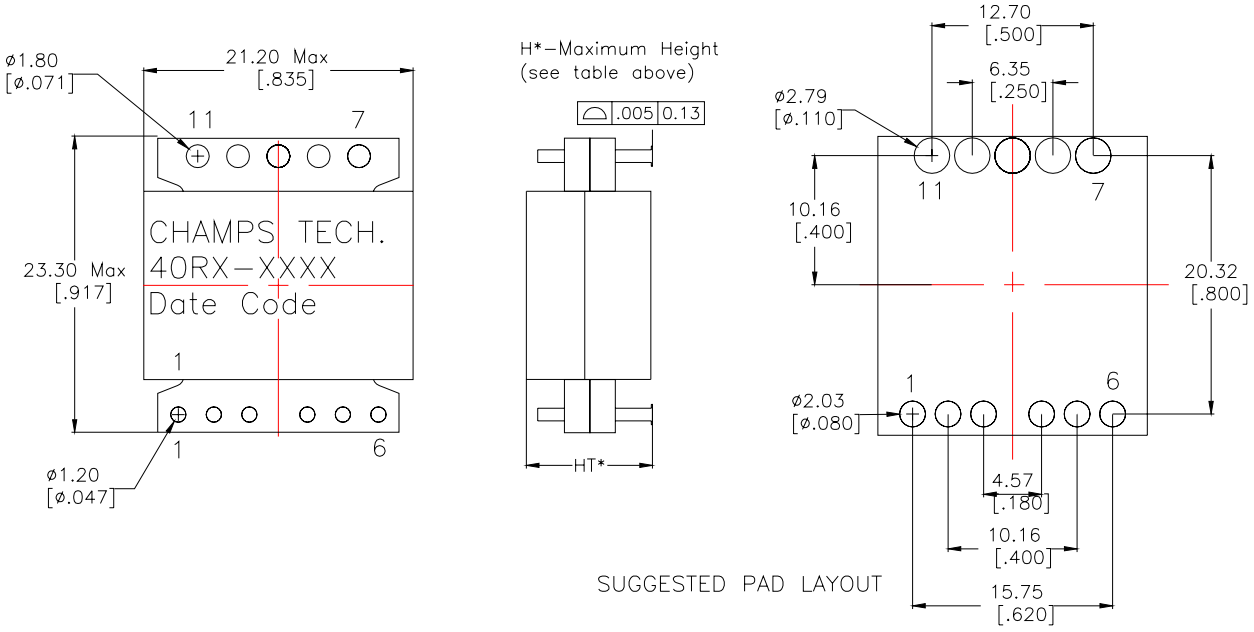
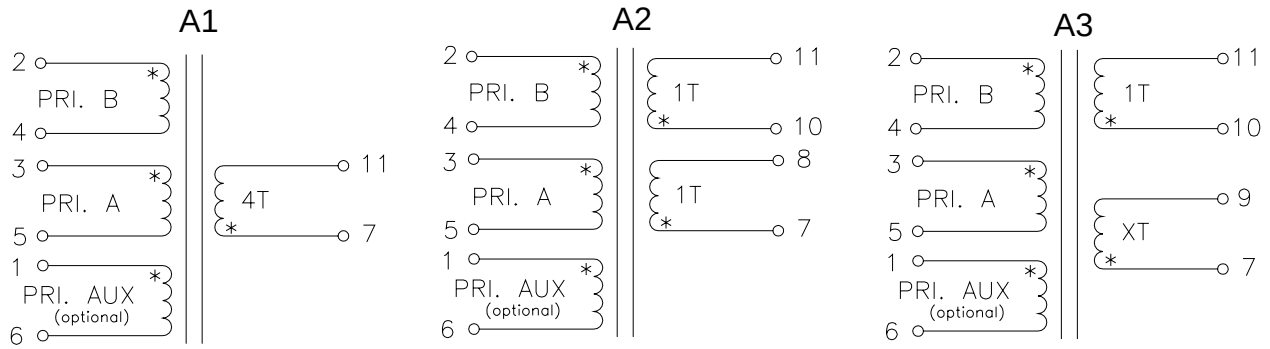


Champs '40' Series Cross Ref to Pulse PA08 Series					
40R2-4444	PA0801	40R2-4411	PA0806	40R2-4421	PA0811
40R2-4544	PA0802	40R2-4511	PA0807	40R2-4521	PA0812
40R2-5544	PA0803	40R2-5511	PA0808	40R2-5521	PA0813
40R2-5644	PA0804	40R2-5611	PA0809	40R2-5621	PA0814
40R2-6644	PA0805	40R2-6611	PA0810	40R2-6621	PA0815
Champs offers '40' Series in many non-standard turns configurations not shown or cross-ref.					

Schematics



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