

80R2 Series Dual Output Active Clamp Forward DC1929A Reference Designs



- Forward Active Clamp Topology -- Highest Efficiency attributable to Planar.
- Aggressive Interleave by design results in lowest achievable Leakage Inductance.
- Multilayer PCB optimization for lowest AC resistance and Proximity Effect.
- Click on Part Number in Table below for the Data Sheet.
- Wide variety of Turns Ratios in stock but not shown in Table.
- Contact Us for Module Design and SM Assy of Converter

Table I: 80R2 Series Dual Output -- Part Numbers and Data Sheets

Champs PN	V _{in} (Min)	V _{in} (Max)	V _{out1}	I _{o1}	I _{o1} Max	V _{out2}	I _{o2}	I _{o2} Max	Companion Output Inductors
80R2-AC-240202D	140	400	5	15.0	30.0	5	15.0	30.0	PQI26LF-0404-4R8
80R2-AC-240205D	140	400	5	15.0	30.0	12	6.0	10.0	<u>PQI26R6-0410-4R8</u>
80R2-AC-220410D	140	400	12	6.0	10.0	30	1.6	5.0	PQI26R6-1025-33R
80R2-AC-220404D	140	400	12	6.0	10.0	12	6.0	10.0	PQI26R6-1010-33R
80R2-AC-220808D	140	400	24	3.0	4.0	24	3.0	4.0	PQI26R6-2020-90R
80R2-AC-221010D	140	400	28	2.5	3.5	28	2.5	3.5	PQI26R6-2222-120R
80R2-AC-221616D	140	400	54	1.5	2.0	54	1.5	2.0	PQI26R6-2525-300R

Notes:

1. In all cases Champs Technologies makes no representation as to suitability of the Analog Device / Linear Tech DC1929A Reference Design itself. That is the design responsibility and Intellectual Property of Analog Devices / Linear Technology.

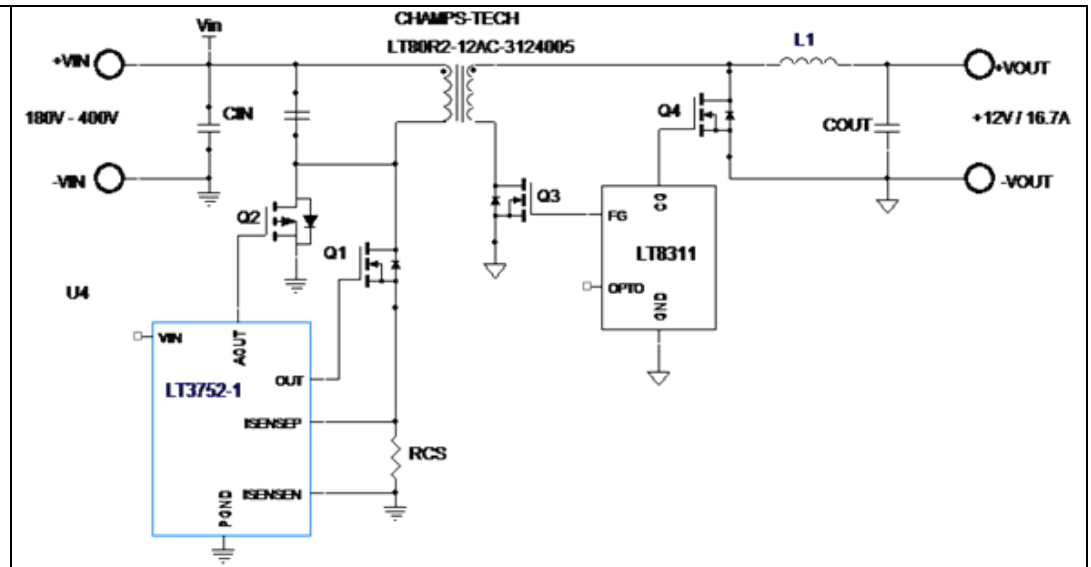
2. Champs Technologies responsibility is limited to the use of its component as described in the Data Sheet and any warranty express or implied is limited to component replacement if found defective.

Table II: PQI26R6 Series Dual Output Companion Output Inductors

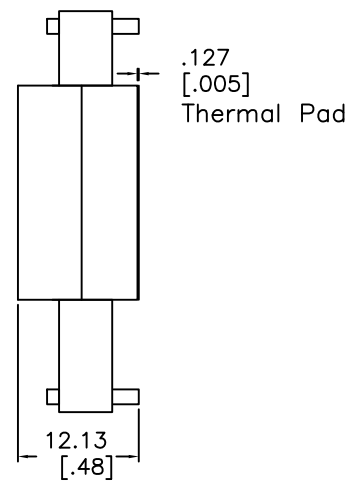
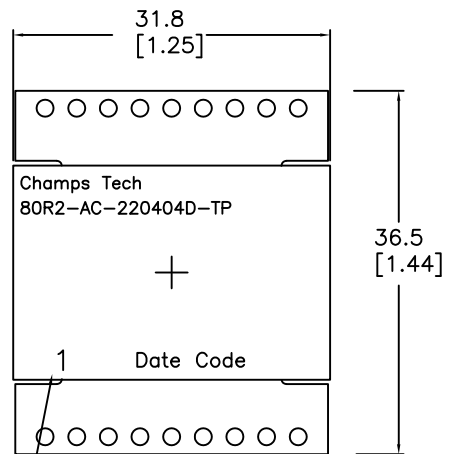
Champs PN	L _{1nom} (uH)	L _{1min} (I _{rat} A)	I _{rated1} Adc	I _{sat1}	L _{2nom} (uH)	L _{2min} (I _{rat} A)	I _{rated2} Adc	I _{sat2}
PQI26LF-0404-4R8	4.8	4.3	16.0	18.0	4.8	4.3	16.0	18.0
PQI26R6-0410-4R8	4.8	4.3	16.0	18.0	30.0	27.0	6.0	7.2
PQI26R6-1025-33R	33.0	29.5	9.0	10.5	206	185	2.0	2.5
PQI26R6-1010-33R	33.0	29.5	9.0	10.5	33.0	29.5	9.0	10.5
PQI26R6-2020-90R	90.0	80.0	3.0	4.8	90.0	80.0	3.0	4.8
PQI26R6-2222-120R	120.0	108.0	2.5	3.25	120.0	108.0	2.5	3.25
PQI26R6-2525-300R	300.0	270.0	1.5	2.0	300.0	270.0	1.5	2.0

Notes:

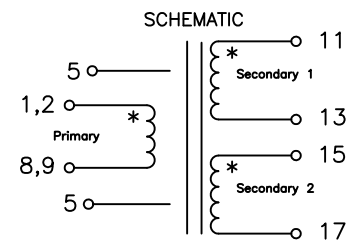
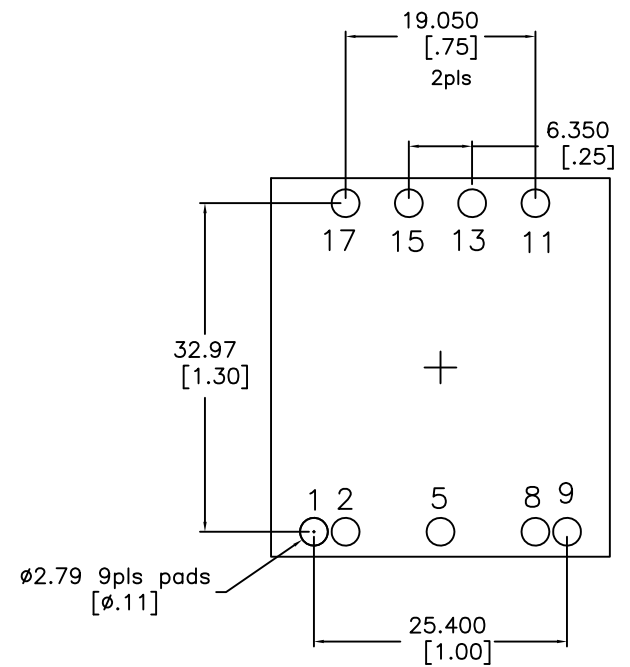
1. I_{rated} values shown are the sum total of outputs #1 and #2 operating simultaneously to their nominal respective rated loads as shown in Table II.
2. I_{sat} values shown are the sum total of outputs #1 and #2 operating simultaneously to their maximum respective rated loads without saturating as shown in Table II.



Mechanical Dimensions [Top View]



Suggested SM Layout [PCB Top View]

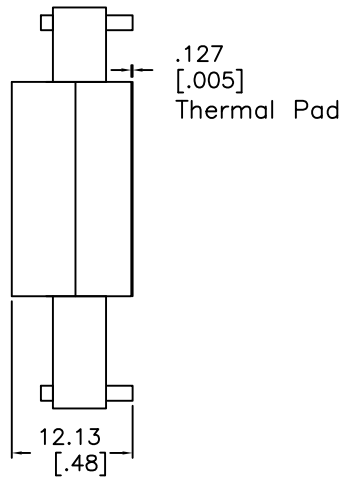
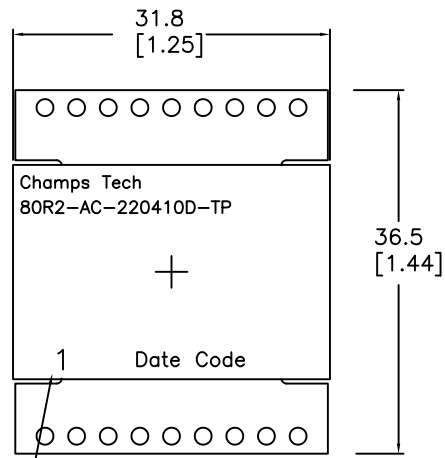


ELECTRICAL INFORMATION:

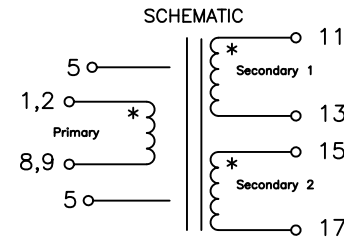
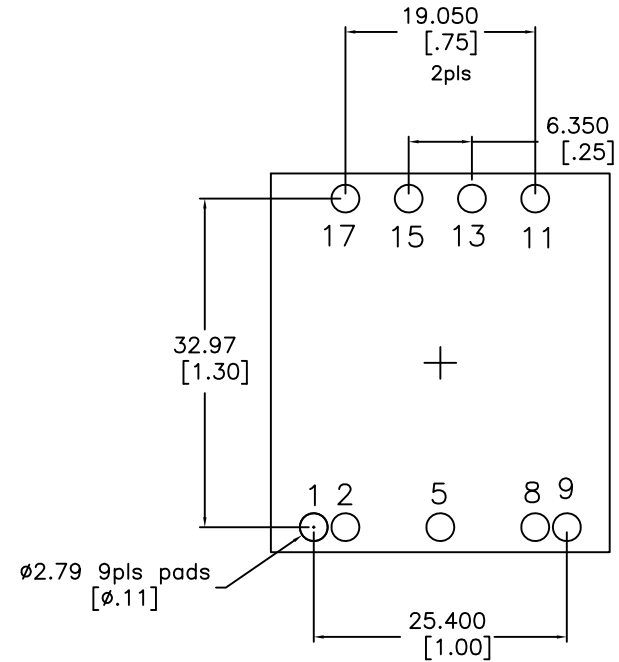
1. TURNS RATIO [11-13] : [1,2-8,9] = 0.182 ±2%, [15-17] : [1,2-8,9] = 0.182 ±2%
2. DCR [1,2-8,9]= 74 mohm Nom, 88 Max 60 Min
DCR [11-13] & [15-17] = 5.2 Mohms Nom, 6.2 Max, 4.5 Min
3. Inductance [1,2-8,9] = 2.6 mH Nom, ±25% at 100KHz, 1.0 VRMS @ 25C
4. Leakage Inductance [1,2-8,9]= Short 11 to 17 = 2.5 uH Nom, 3.5 Max @100 KHz
5. Capacitance [1,2,8,9] : [5] = 280pF Nom, 365 Max || [11,15] : [5] = 170pF Nom, 225 Max || [1,2,8,9] : [11,15] = 105pF Nom, 135 Max
6. Dielectric Strength 3 Sec Min 1,2-8,9 : 5 : Core > 1000 VDC || 5 : Core > 1000 Vdc
Dielectric Strength 1,2,8,9,5: 11,13,15,17 > 1500 VAC || 11,13 : 15,17 > 500 Vdc
7. RoHS & REACH Compliant I Pin Composition 96/4 Tin/Silver Plating
8. Temperature Rating: -55C to +130C [Inclusive of Temp Rise]

				CHAMPS TECHNOLOGIES	THIRD ANGLE PROJECTION	TOLERANCES UNLESS OTHERWISE INDICATED .XXX ± .25 .XX ± 0.38 .X ± 0.78	DRAWN	HE	02.15.17	PN: 80R2-AC-220404D-TP	ISSUE	REV
							CHKD					A
No.	REVISIONS	DATE	APPR				SIZE	SCALE 150%				

Mechanical Dimensions [Top View]



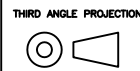
Suggested SM Layout [PCB Top View]



ELECTRICAL INFORMATION:

1. TURNS RATIO [11-13] : [1,2-8,9] = 0.182 ±2%, [15-17] : [1,2-8,9] = 0.455 ±2%
2. DCR [1,2-8,9]= 74 mohm Nom, 88 Max 60 Min
DCR [11-13] = 5.2 Mohms Nom, 6.2 Max, 4.5 Min || [15-17] = 30.5 mohms Nom, 36 Max, 25 Min
3. Inductance [1,2-8,9] = 2.6 mH Nom, ±25% at 100KHz, 1.0 VRMS @ 25C
4. Leakage Inductance [1,2-8,9]= Short 11 to 17 = 2.5 uH Nom, 3.5 Max @100 KHz
5. Capacitance [1,2,8,9] : [5] = 280pF Nom, 365 Max || [11,15] : [5] = 170pF Nom, 225 Max || [1,2,8,9] : [11,15] = 105pF Nom, 135 Max
6. Dielectric Strength 3 Sec Min 1,2-8,9 : 5 : Core > 1000 VDC || 5 : Core > 1000 Vdc
Dielectric Strength 1,2,8,9,5: 11,13,15,17 > 1500 VAC || 11,13 : 15,17 > 500 Vdc
7. RoHS & REACH Compliant I Pin Composition 96/4 Tin/Silver Plating
8. Temperature Rating: -55C to +130C [Inclusive of Temp Rise]

CHAMPS TECHNOLOGIES

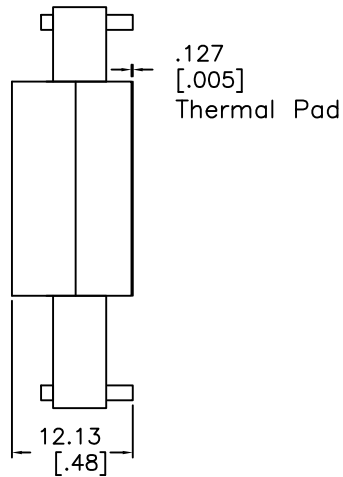
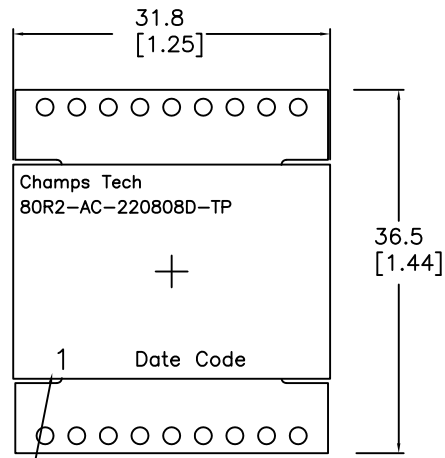


TOLERANCES UNLESS OTHERWISE INDICATED
.xxx ± .25
.xx ± 0.38
.x ± 0.78

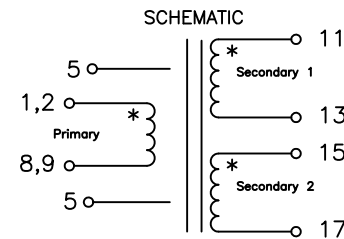
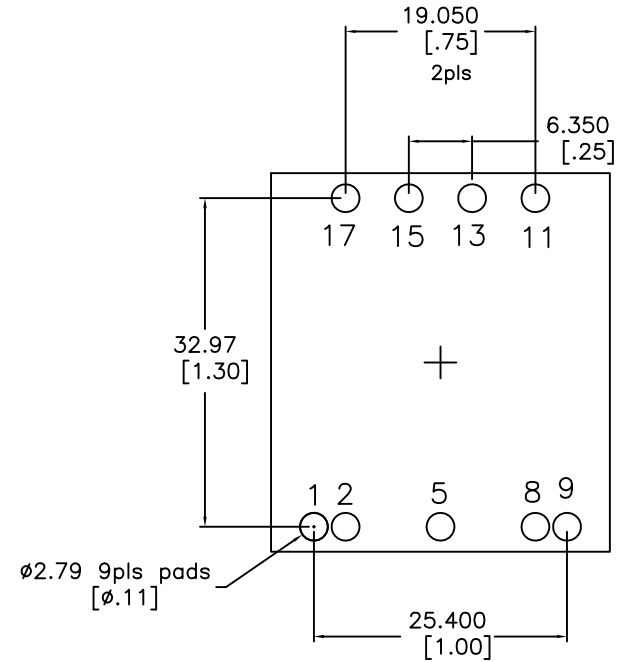
DRAWN	HE	02.15.17	PN:	80R2-AC-220410D-TP	ISSUE	REV
CHKD			SIZE	SCALE 150%	A	00
APPR						

No.	REVISIONS	DATE	APPR

Mechanical Dimensions [Top View]



Suggested SM Layout [PCB Top View]

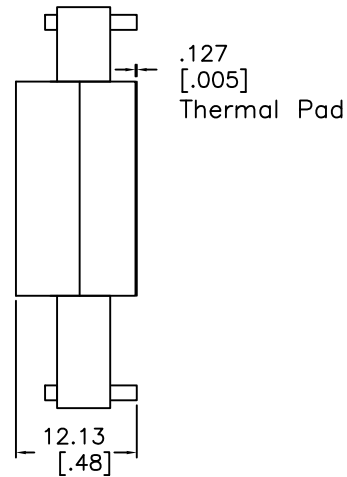
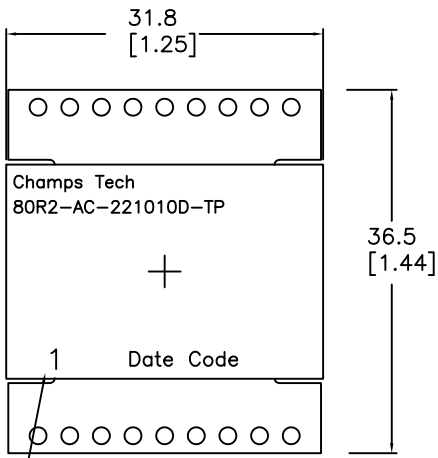


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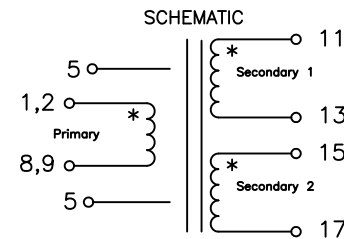
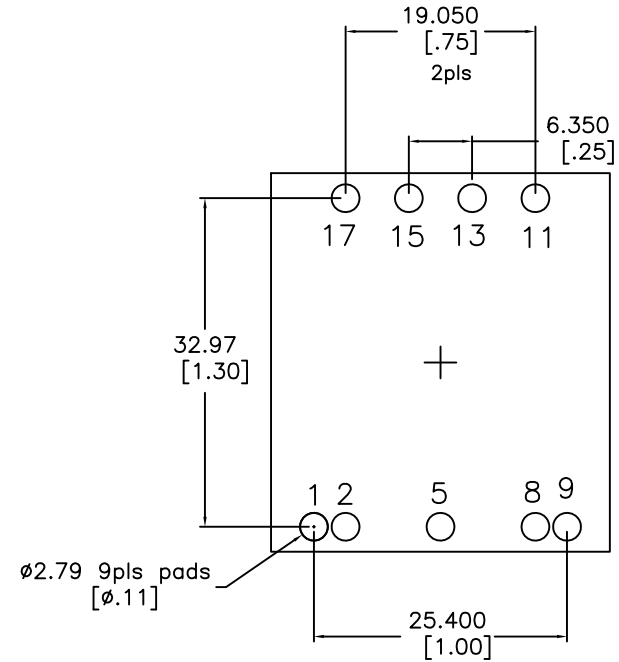
1. TURNS RATIO [11-13] : [1,2-8,9] = 0.363 ±2%, [15-17] : [1,2-8,9] = 0.363 ±2%
2. DCR [1,2-8,9]= 74 mohm Nom, 88 Max 60 Min
DCR [11-13] & [15-17] = 25 Mohms Nom, 35 Max
3. Inductance [1,2-8,9] = 2.6 mH Nom, ±25% at 100KHz, 1.0 VRMS @ 25C
4. Leakage Inductance [1,2-8,9]= Short 11 to 17 = 2.5 uH Nom, 3.5 Max @100 KHz
5. Capacitance [1,2,8,9] : [5] = 280pF Nom, 365 Max || [11,15] : [5] = 170pF Nom, 225 Max || [1,2,8,9] : [11,15] = 105pF Nom, 135 Max
6. Dielectric Strength 3 Sec Min 1,2-8,9 : 5 : Core > 1000 VDC || 5 : Core > 1000 Vdc
Dielectric Strength 1,2,8,9,5: 11,13,15,17 > 1500 VAC || 11,13 : 15,17 > 500 Vdc
7. RoHS & REACH Compliant I Pin Composition 96/4 Tin/Silver Plating
8. Temperature Rating: -55C to +130C [Inclusive of Temp Rise]

				CHAMPS TECHNOLOGIES	THIRD ANGLE PROJECTION	TOLERANCES UNLESS OTHERWISE INDICATED .XXX ± .25 .XX ± 0.38 .X ± 0.78	DRAWN	HE	02.15.17	PN: 80R2-AC-220808D-TP	ISSUE	REV
							CHKD					A
No.	REVISIONS	DATE	APPR				SIZE	SCALE 150%				

Mechanical Dimensions [Top View]



Suggested SM Layout [PCB Top View]

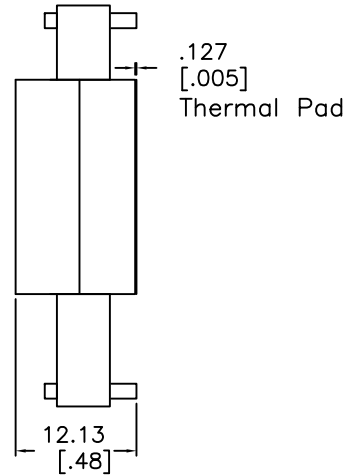
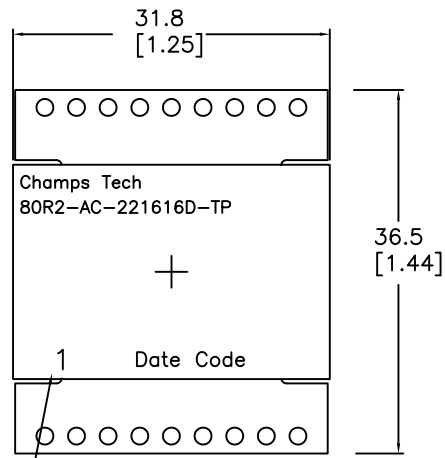


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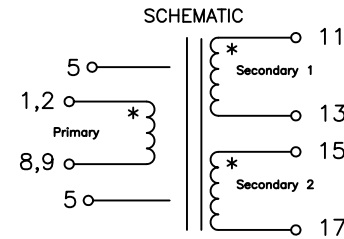
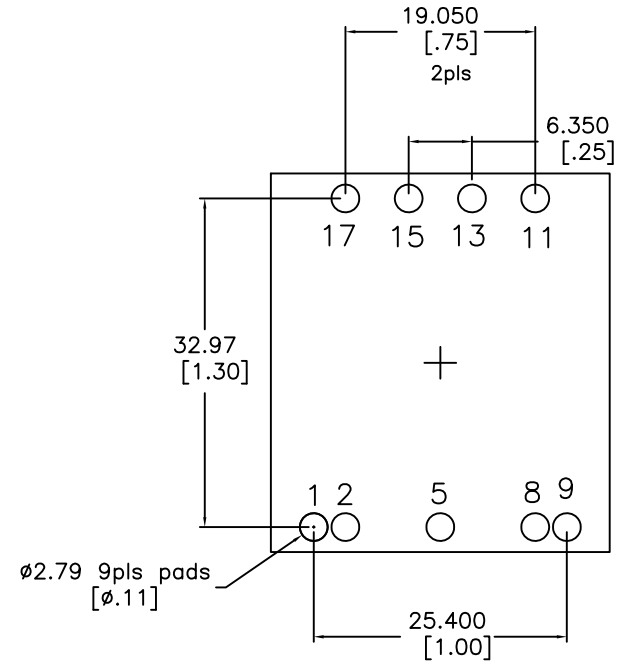
1. TURNS RATIO [11-13] & [15-17]: [1,2-8,9] = 0.455 ±2%
2. DCR [1,2-8,9]= 74 mohm Nom, 88 Max 60 Min
DCR [11-13] & [15-17] = 30.5 mohms Nom, 36 Max, 25 Min
3. Inductance [1,2-8,9] = 2.6 mH Nom, ±25% at 100KHz, 1.0 VRMS @ 25C
4. Leakage Inductance [1,2-8,9]= Short 11 to 17 = 2.5 uH Nom, 3.5 Max @100 KHz
5. Capacitance [1,2,8,9] : [5] = 280pF Nom, 365 Max || [11,15] : [5] = 170pF Nom, 225 Max || [1,2,8,9] : [11,15] = 105pF Nom, 135 Max
6. Dielectric Strength 3 Sec Min 1,2-8,9 : 5 : Core > 1000 VDC || 5 : Core > 1000 Vdc
Dielectric Strength 1,2,8,9,5: 11,13,15,17 > 1500 VAC || 11,13 : 15,17 > 500 Vdc
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8. Temperature Rating: -55C to +130C [Inclusive of Temp Rise]

				CHAMPS TECHNOLOGIES	THIRD ANGLE PROJECTION	TOLERANCES UNLESS OTHERWISE INDICATED .XXX ± .25 .XX ± 0.38 .X ± 0.78	DRAWN	HE	02.15.17	PN: 80R2-AC-221010D-TP	ISSUE	REV
							CHKD					A
No.	REVISIONS	DATE	APPR				SIZE	SCALE 150%				

Mechanical Dimensions [Top View]



Suggested SM Layout [PCB Top View]

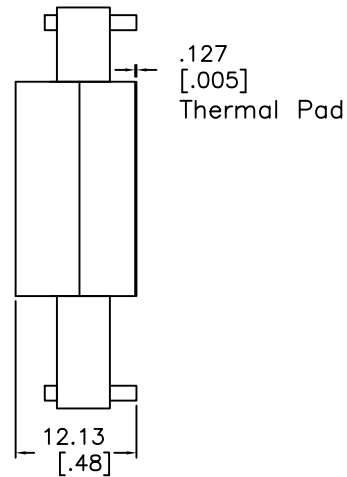
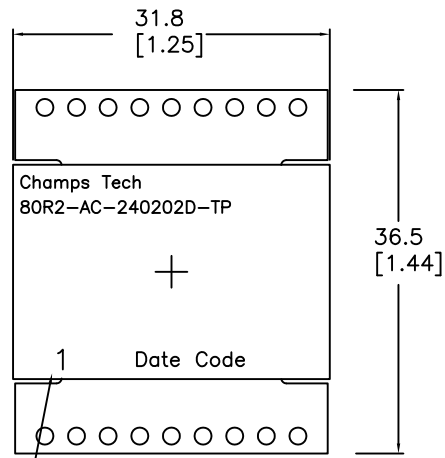


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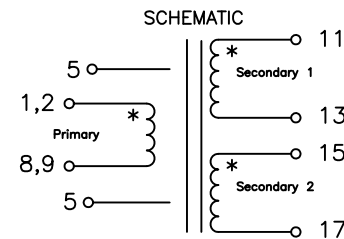
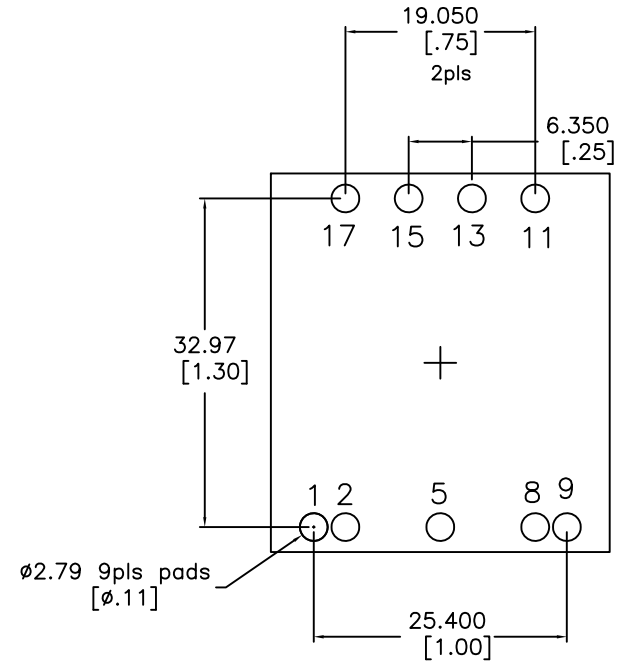
1. TURNS RATIO [11-13] & [15-17]: [1,2-8,9] = 0.727 ±2%
2. DCR [1,2-8,9]= 74 mohm Nom, 88 Max 60 Min
DCR [11-13] & [15-17] = 60 mohms Nom, 70 Max, 55 Min
3. Inductance [1,2-8,9] = 2.6 mH Nom, ±25% at 100KHz, 1.0 VRMS @ 25C
4. Leakage Inductance [1,2-8,9]= Short 11 to 17 = 2.5 uH Nom, 3.5 Max @100 KHz
5. Capacitance [1,2,8,9] : [5] = 280pF Nom, 365 Max || [11,15] : [5] = 170pF Nom, 225 Max || [1,2,8,9] : [11,15] = 105pF Nom, 135 Max
6. Dielectric Strength 3 Sec Min 1,2-8,9 : 5 : Core > 1000 VDC || 5 : Core > 1000 Vdc
Dielectric Strength 1,2,8,9,5: 11,13,15,17 > 1500 VAC || 11,13 : 15,17 > 500 Vdc
7. RoHS & REACH Compliant I Pin Composition 96/4 Tin/Silver Plating
8. Temperature Rating: -55C to +130C [Inclusive of Temp Rise]

				CHAMPS TECHNOLOGIES	THIRD ANGLE PROJECTION	TOLERANCES UNLESS OTHERWISE INDICATED .xxx ± .25 .xx ± 0.38 .x ± 0.78	DRAWN	HE	02.15.17	PN: 80R2-AC-221616D-TP	ISSUE A	REV 00
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No.	REVISIONS	DATE	APPR									

Mechanical Dimensions [Top View]



Suggested SM Layout [PCB Top View]

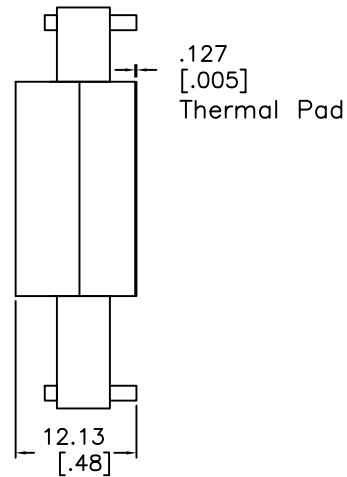
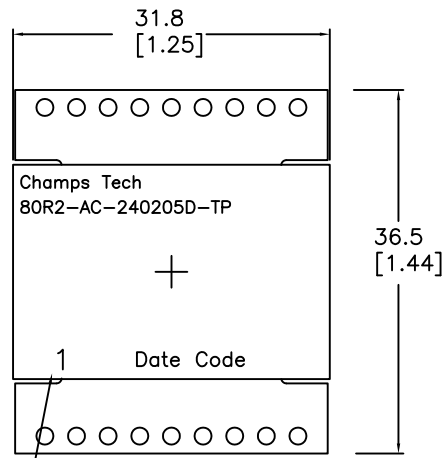


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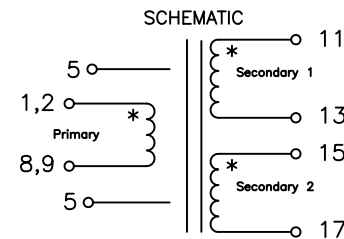
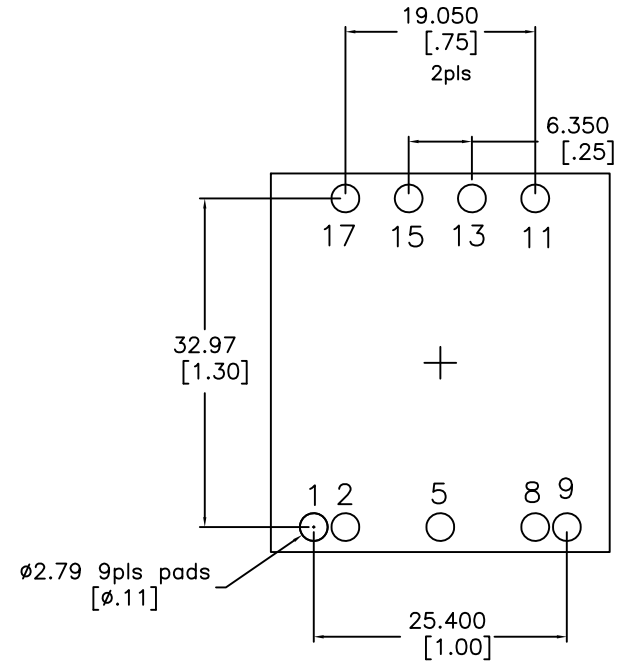
1. TURNS RATIO [11-13] : [1,2-8,9] = 0.083 ±2%, [15-17] : [1,2-8,9] = 0.083 ±2%
2. DCR [1,2-8,9]= 92 mohm Nom, 108 Max
DCR [11-13] = 1.4 Mohms Nom, 1.7 Max, || [15-17] = 1.4 mohms Nom, 1.7 Max
3. Inductance [1,2-8,9] = 3.1 mH Nom, ±25% at 100KHz, 1.0 VRMS @ 25C
4. Leakage Inductance [1,2-8,9]= Short 11 to 17 = 3.3 uH Nom, 4.5 Max @100 KHz
5. Capacitance [1,2,8,9] : [5] = 280pF Nom, 365 Max || [11,15] : [5] = 170pF Nom, 225 Max || [1,2,8,9] : [11,15] = 105pF Nom, 135 Max
6. Dielectric Strength 3 Sec Min 1,2-8,9 : 5 : Core > 1000 VDC || 5 : Core > 1000 Vdc
Dielectric Strength 1,2,8,9,5: 11,13,15,17 > 1500 VAC || 11,13 : 15,17 > 500 Vdc
7. RoHS & REACH Compliant I Pin Composition 96/4 Tin/Silver Plating
8. Temperature Rating: -55C to +130C [Inclusive of Temp Rise]

				CHAMPS TECHNOLOGIES	THIRD ANGLE PROJECTION	TOLERANCES UNLESS OTHERWISE INDICATED .XXX ± .25 .XX ± 0.38 .X ± 0.78	DRAWN	HE	02.15.17	PN: 80R2-AC-240202D-TP	ISSUE A	REV 00
							CHKD					
No.	REVISIONS	DATE	APPR				APPR					

Mechanical Dimensions [Top View]



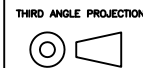
Suggested SM Layout [PCB Top View]



ELECTRICAL INFORMATION:

1. TURNS RATIO [11-13] : [1,2-8,9] = 0.083 ±2%, [15-17] : [1,2-8,9] = 0.208 ±2%
2. DCR [1,2-8,9]= 92 mohm Nom, 108 Max
DCR [11-13] = 1.4 Mohms Nom, 1.7 Max, || [15-17] = 7.5 mohms Nom, 9.0 Max
3. Inductance [1,2-8,9] = 3.1 mH Nom, ±25% at 100KHz, 1.0 VRMS @ 25C
4. Leakage Inductance [1,2-8,9]= Short 11 to 17 = 3.3 uH Nom, 4.5 Max @100 KHz
5. Capacitance [1,2,8,9] : [5] = 280pF Nom, 365 Max || [11,15] : [5] = 170pF Nom, 225 Max || [1,2,8,9] : [11,15] = 105pF Nom, 135 Max
6. Dielectric Strength 3 Sec Min 1,2-8,9 : 5 : Core > 1000 VDC || 5 : Core > 1000 Vdc
Dielectric Strength 1,2,8,9,5: 11,13,15,17 > 1500 VAC || 11,13 : 15,17 > 500 Vdc
7. RoHS & REACH Compliant I Pin Composition 96/4 Tin/Silver Plating
8. Temperature Rating: -55C to +130C [Inclusive of Temp Rise]

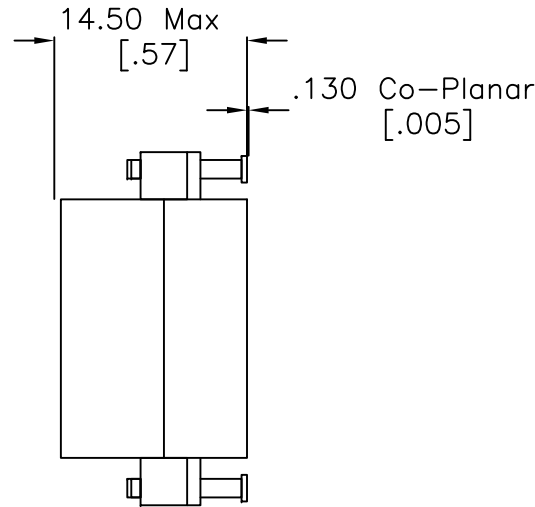
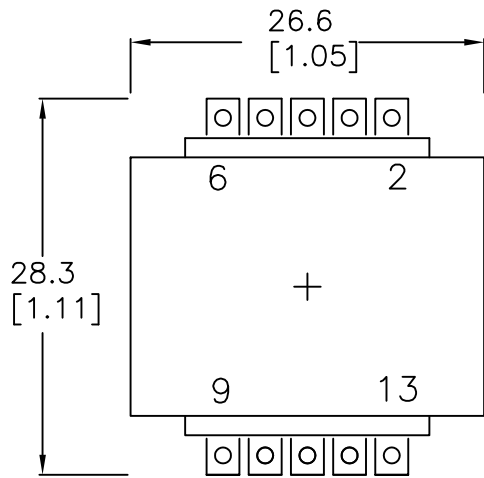
CHAMPS TECHNOLOGIES



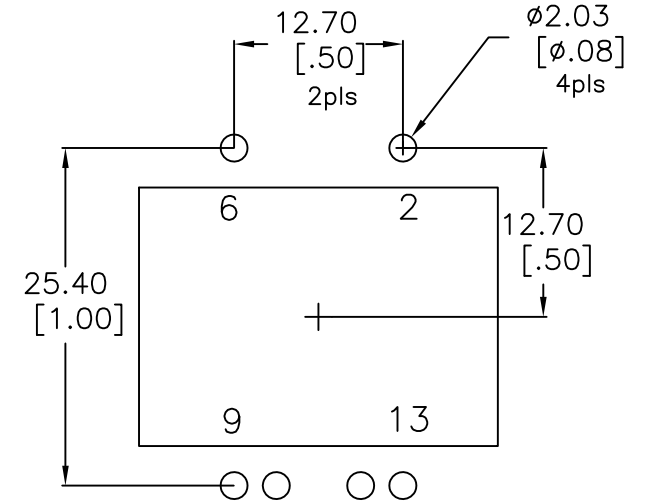
TOLERANCES UNLESS OTHERWISE INDICATED
.xxx ± .25
.xx ± 0.38
.x ± 0.78

DRAWN	HE	02.15.17	PN:	80R2-AC-240205D-TP	ISSUE	REV
CHKD			SIZE	SCALE 150%	A	00
APPR						

No.	REVISIONS	DATE	APPR

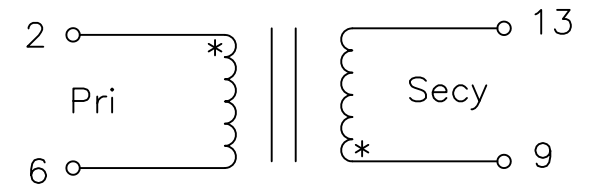


SUGGESTED PAD LAYOUT



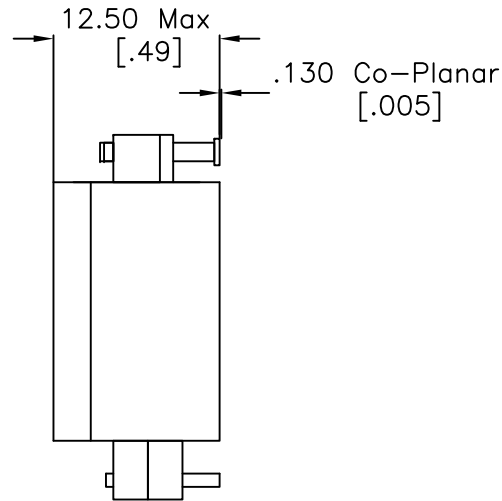
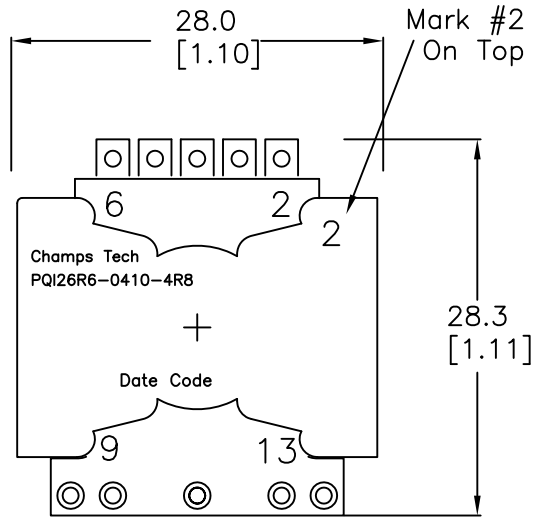
Electrical Information:

1. TURNS [2-6] : [9-13] = 1.0 ±2%
2. INDUCTANCE [2-6] = 4.8 uH ±10% @100kHz/1.0V
- 2b. INDUCTANCE [2-6] = 4.0 uH Min @100kHz/1.0V @30A_{dc}
3. LEAKAGE INDUCTANCE [2-6] : SHORT 9-13 = 100 nH Nom @100kHz
4. DCR [2-6] = 3.8 mohms Nom, DCR [9-13] = 3.8mohms Nom, ±12%
5. NOM PEAK CURRENT RATING COMBINED [2-6] = 16A || [9-13] = 16A
MAX PEAK CURRENT RATING COMBINED [2-6] = 18A || [9-13] = 18A
6. RMS MAX CURRENT RATING COMBINED [2-6] = 18A || [9-13] = 18A
7. CAPACITANCE 2,6 to 9,13 = 180 pF Nom @100kHz
8. DIELECTRIC ISOLATION: [2,6] : [9,13] > 1500 VDC
DIELECTRIC ISOLATION: [9,13] : CORE > 500 Vdc
9. RoHS Level 6/6 Compliant | Pins 96/4 Sn/Ag Plating
10. Operating Temp Range -55C to +130C [Inclusive of Application Temp Rise]

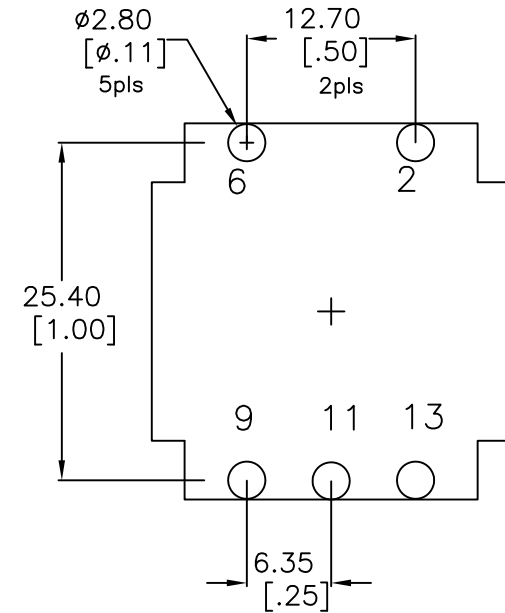


No.	DESCRIPTION	REVISIONS	DATE	APPR
THIRD ANGLE PROJECTION				
CHAMPS TECHNOLOGIES				
TOLERANCES +/- 1.0 UNLESS OTHERWISE INDICATED		SIGN	DATE	Champs-Tech PN Pqi26LF-0404D-4R8
DRAWN	JL	09.18.15	Customer	ISSUE A
CHKD	PH		Part #:	REV 00
APPR	DT		SIZE	SCALE 2:1

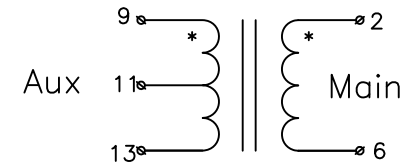
MECHANICAL DIMENSIONS



SUGGESTED PAD LAYOUT



SCHEMATIC



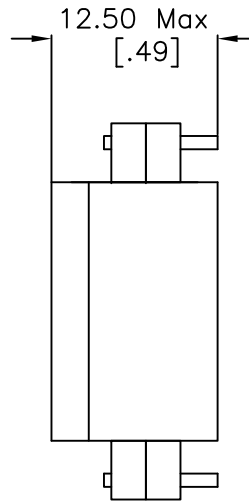
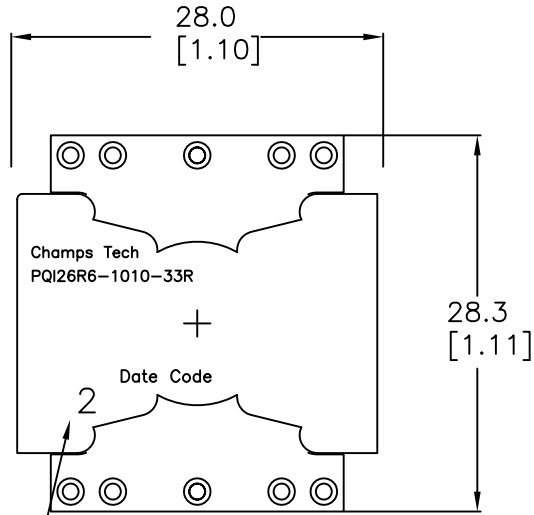
ONLY PIN #S 2,6,9,11,13 ARE POPULATED
PIN #4 IS KEYING PIN FOR ORIENTATION

Electrical Information:

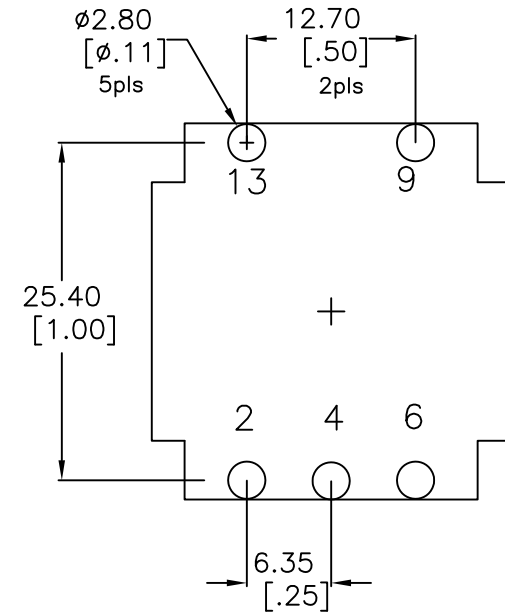
1. TURNS [2-6] : [9-13] = 0.40 ±2%
2. INDUCTANCE [2-6] = 4.8 uH ±10% @100kHz/1.0V
- 2b. INDUCTANCE [2-6] = 4.3 uH Min @100kHz/1.0V @16Adc
3. LEAKAGE INDUCTANCE [9-13] : SHORT 2,6 = 1.0 uH Nom @100kHz
4. DCR [2-6] = 3.8 mohms Nom, DCR [9-13] = 33 mohms Nom,
5. PEAK CURRENT RATING COMBINED [2-6] = 16A || [9-13] = 6.0A
6. RMS MAX CURRENT RATING COMBINED [2-6] = 18A || [9-13] = 6A
7. CAPACITANCE 2,6 to 9,13 = 180 pF Nom @100kHz
8. DIELECTRIC ISOLATION: [2,6] : [9,13] > 1500 VDC
DIELECTRIC ISOLATION: [9,13] : CORE > 500 Vdc
9. RoHS Level 6/6 Compliant | Pins 96/4 Sn/Ag Plating
10. Operating Temp Range -55C to +130C [Inclusive of Application Temp Rise]
11. Storage Temp Range -55C to +130C [Materials rated to +170C]

No.	DESCRIPTION	REVISIONS	DATE	APPR
THIRD ANGLE PROJECTION				
CHAMPS TECHNOLOGIES				
TOLERANCES/UNITS in MM UNLESS OTHERWISE INDICATED		SIGN	DATE	Champs-Tech PN PQI26R6-0410-4R8
.XXX ± 0.18	DRAWN		11/8/16	Customer
.XX ± 0.38	CHKD			Part #:
.X ANGLE ± 1.0	APPR			ISSUE A
				REV 00
			SIZE A4	SCALE 2:1

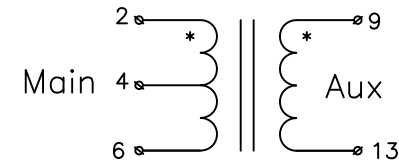
MECHANICAL DIMENSIONS



SUGGESTED PAD LAYOUT



SCHEMATIC



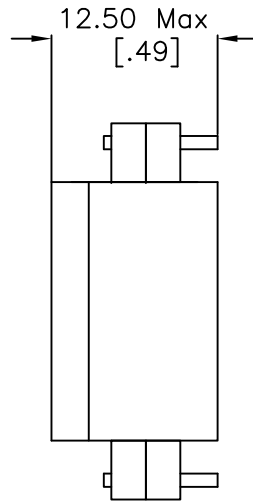
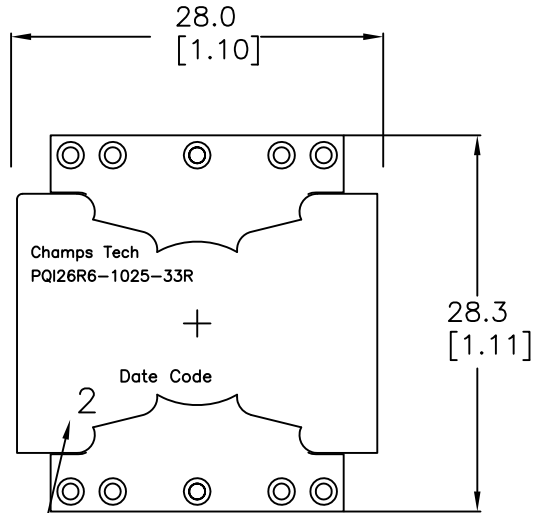
ONLY PIN #S 2,4,6,9,13 ARE POPULATED
PIN #4 IS KEYING PIN FOR ORIENTATION

Electrical Information:

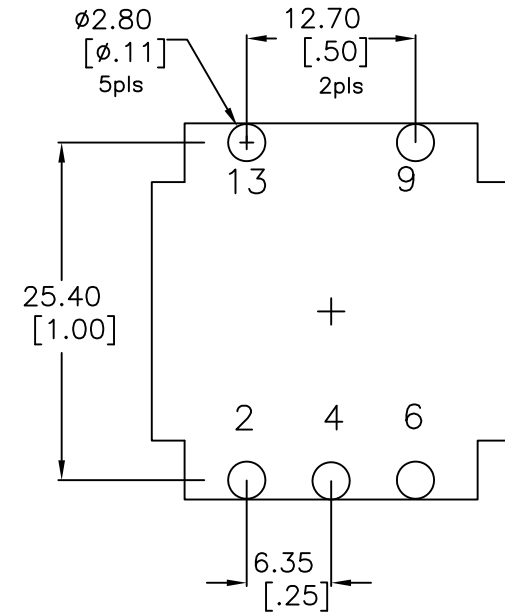
1. TURNS [2-6] : [9-13] = 1.0 ±2%
2. INDUCTANCE [2-6] & [9-13] = 33 uH ±10% @100kHz/1.0V
- 2b. INDUCTANCE [2-6] & [9-13] = 29.5 uH Min @100kHz/1.0V @10Adc
3. LEAKAGE INDUCTANCE [2-6] : SHORT 9-13 = 1.0 uH Nom @100kHz
4. DCR [2-6] & [9-13] = 33 mohms Nom
5. PEAK CURRENT RATING COMBINED [2-6] = 8.0A || [9-13] = 8.0A
6. RMS MAX CURRENT RATING COMBINED [2-6] = 7A || [9-13] = 7A
7. CAPACITANCE 2,6 to 9,13 = 180 pF Nom @100kHz
8. DIELECTRIC ISOLATION: [2,6] : [9,13] > 1500 VDC
DIELECTRIC ISOLATION: [9,13] : CORE > 500 Vdc
9. RoHS Level 6/6 Compliant | Pins 96/4 Sn/Ag Plating
10. Operating Temp Range -55C to +130C [Inclusive of Application Temp Rise]
11. Storage Temp Range -55C to +130C [Materials rated to +170C]

No.	DESCRIPTION	REVISIONS	DATE	APPR
THIRD ANGLE PROJECTION				
CHAMPS TECHNOLOGIES				
TOLERANCES/UNITS in MM UNLESS OTHERWISE INDICATED		SIGN	DATE	Champs-Tech PN PQI26R6-1010-33R
.XXX ± 0.18	DRAWN		11/8/16	Customer
.XX ± 0.38	CHKD			Part #:
.X ± 1.0	APPR			ISSUE A
ANGLE ±				REV 00
SIZE A4			SCALE 2:1	

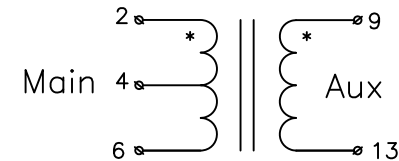
MECHANICAL DIMENSIONS



SUGGESTED PAD LAYOUT



SCHEMATIC



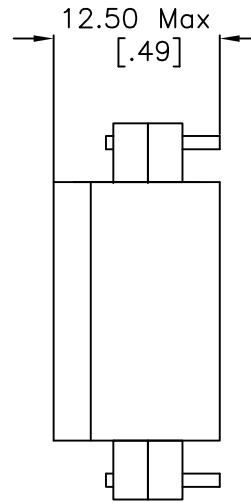
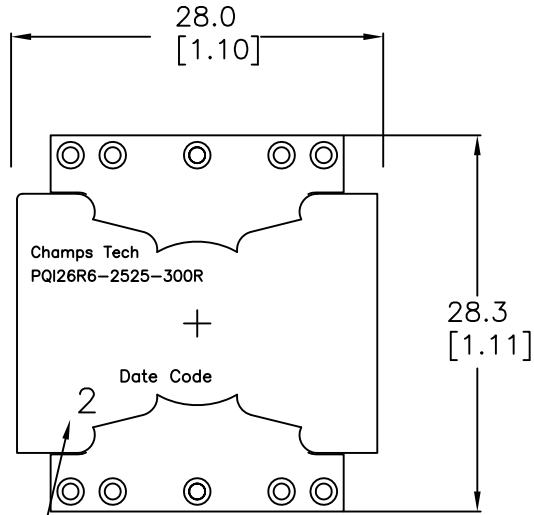
ONLY PIN #S 2,4,6,9,13 ARE POPULATED
PIN #4 IS KEYING PIN FOR ORIENTATION

Electrical Information:

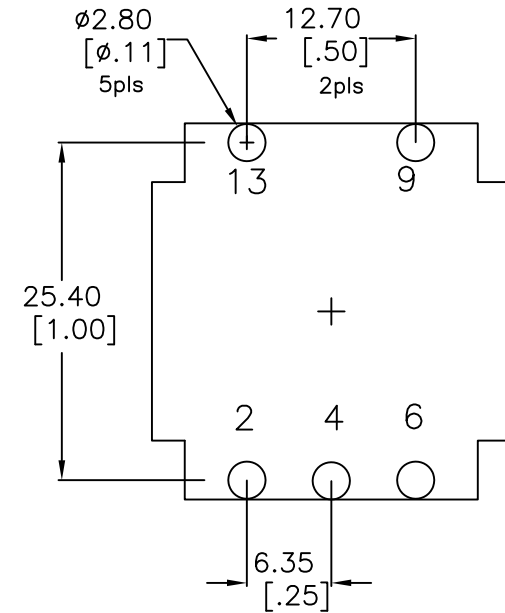
1. TURNS [2-6] : [9-13] = 0.40 ±2%
2. INDUCTANCE [2-6] = 33 uH ±10% @100kHz/1.0V
- 2b. INDUCTANCE [2-6] = 29.5 uH Min @100kHz/1.0V @10Adc
3. LEAKAGE INDUCTANCE [2-6] : SHORT 9-13 = 1.0 uH Nom @100kHz
4. DCR [2-6] = 33 mohms Nom, DCR [9-13] = 218 mohms Nom,
5. PEAK CURRENT RATING COMBINED [2-6] = 8A || [9-13] = 2.5A
6. RMS MAX CURRENT RATING COMBINED [2-6] = 10A || [9-13] = 3A
7. CAPACITANCE 2,6 to 9,13 = 180 pF Nom @100kHz
8. DIELECTRIC ISOLATION: [2,6] : [9,13] > 1500 VDC
DIELECTRIC ISOLATION: [9,13] : CORE > 500 Vdc
9. RoHS Level 6/6 Compliant | Pins 96/4 Sn/Ag Plating
10. Operating Temp Range -55C to +130C [Inclusive of Application Temp Rise]
11. Storage Temp Range -55C to +130C [Materials rated to +170C]

No.	DESCRIPTION	REVISIONS	DATE	APPR
THIRD ANGLE PROJECTION				
CHAMPS TECHNOLOGIES				
TOLERANCES/UNITS in MM UNLESS OTHERWISE INDICATED		SIGN	DATE	Champs-Tech PN PQI26R6-1025-33R
.XXX ± 0.18	DRAWN		11/8/16	Customer
.XX ± 0.38	CHKD			Part #:
.X ± 1.0	APPR			ISSUE A
ANGLE ±				REV 00
SIZE A4			SCALE 2:1	

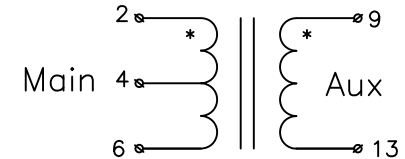
MECHANICAL DIMENSIONS



SUGGESTED PAD LAYOUT



SCHEMATIC



ONLY PIN #S 2,4,6,9,13 ARE POPULATED
PIN #4 IS KEYING PIN FOR ORIENTATION

Electrical Information:

1. TURNS [2-6] : [9-13] = 1.0 ±2%
2. INDUCTANCE [2-6] = 300 uH ±10% @100kHz/1.0V
- 2b. INDUCTANCE [2-6] = 270 uH Min @100kHz/1.0V @3.0A_{dc}
3. LEAKAGE INDUCTANCE [2-6] : SHORT 9-13 = 1.0 uH Nom @100kHz
4. DCR [2-6] & [9-13] = 218 mohms Nom,
5. PEAK CURRENT RATING COMBINED [2-6] = 1.5A || [9-13] = 1.5A
6. RMS MAX CURRENT RATING COMBINED [2-6] = 2A || [9-13] = 2A
7. CAPACITANCE 2,6 to 9,13 = 180 pF Nom @100kHz
8. DIELECTRIC ISOLATION: [2,6] : [9,13] > 1500 VDC
DIELECTRIC ISOLATION: [9,13] : CORE > 500 Vdc
9. RoHS Level 6/6 Compliant | Pins 96/4 Sn/Ag Plating
10. Operating Temp Range -55C to +130C [Inclusive of Application Temp Rise]
11. Storage Temp Range -55C to +130C [Materials rated to +170C]

No.	DESCRIPTION	REVISIONS	DATE	APPR
THIRD ANGLE PROJECTION				
CHAMPS TECHNOLOGIES				
TOLERANCES/UNITS in MM UNLESS OTHERWISE INDICATED		SIGN	DATE	Champs-Tech PN PQI26R6-2525-300R
.XXX ± 0.18	DRAWN		11/8/16	Customer
.XX ± 0.38	CHKD			Part #:
.X ± 1.0	APPR			ISSUE A REV 00
		SIZE A4	SCALE 2:1	