

SP- 49

Description:

Triad's high reliability audio transformers provide the durability and precision required in today's demanding designs. These transformers are available for a wide variety of applications.

Electrical Specifications (@25C)

| Power level (mW) | Matching Impedance | | Max. Ma DC Unbalance in Primary | DC Resistance (Ω) | | Overall Turns Ratio |
|------------------|--------------------|-----------|---------------------------------|----------------------------|-----------|---------------------|
| | Primary | Secondary | | Primary | Secondary | |
| 50 | 300 CT | 600 | 7.0 | 41.0 | 98.0 | 1.0:1.42 |

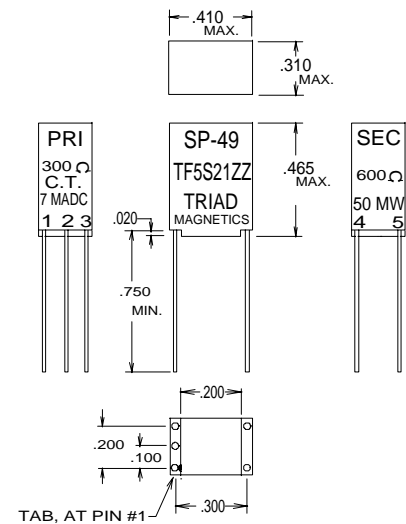
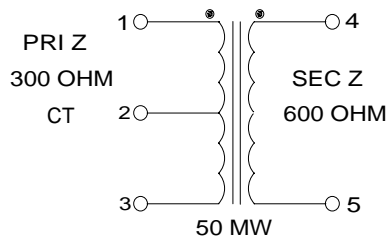
Frequency Response: ± 2.0 DB, at 300 Hz to 100K Hz

Pri-Sec Hipot test (Pri-Sec): 1,000 VRMS for 1 sec.

Working voltage: 150VDC

Construction:

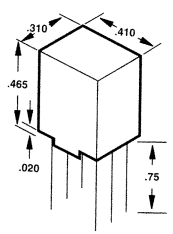
Plug-in terminals are precision spaced to provide fixed mounting centers. Epoxy molded case includes a .020" recess for ease of solder inspection. Leads are made of high strength Nickel alloy, gold plated and are .020" in diameter.



RoHS Compliance: As of manufacturing date February 2005, all standard products meet the requirements of 2002/95/EC, known as the RoHS initiative.

Audio Transformers

MIL-T-27E



**Red Spec
(MIL-T-27E)**

:: Description

Triad high reliability audio transformers provide the durability and precision required in today's demanding designs. These transformers are available for a wide variety of applications. The line of Red Spec audio transformers is designed and constructed to meet the rigid requirements of MIL-T-27E. These transformers feature an epoxy molded case, gold plated leads and exceptional operation from 300 Hz to 100 kHz.

:: Specifications

Frequency Response Ranges: 300 Hz to 100 kHz

:: Red Spec Printed Circuit Audio Transformers

| Section | Type No. | Mil Type No. | Power Level in mW | Matching Impedance | | Max. Ma DC Unbalanced in Primary | DC Resistance | | Overall Turns Ratio | Figure No. |
|---------|----------|--------------|-------------------|---------------------|---------------|----------------------------------|---------------|--------------|---------------------|------------|
| | | | | Primary | Secondary | | Primary | Secondary | | |
| A | SP-4 | TF5S21ZZ | 10 | 200,000 CT | 1,000 CT | 0.0 | 5,300.0 | 100.0 | 14.1:1.0 | 3 |
| B | SP-5 | TF5S21ZZ | 25 | 50,000 CT | 1,000 CT | 0.0 | 3,800.0 | 75.0 | 7.1:1.0 | 3 |
| C | SP-13 | TF5S21ZZ | 40 | 25,000 CT/20,000 CT | 1,000/800 CT | 0.5 | 1,700.0 | 115.0 | 5.0:1.0 | 3 |
| D | SP-20 | TF5S21ZZ | 50 | 10,000 CT | 1,200 CT | 1.0 | 1,050.0 | 200.0 | 2.88:1.0 | 3 |
| | SP-21 | TF5S21ZZ | 50 | 10,000 CT | 2,000 CT | 1.0 | 1,050.0 | 330.0 | 2.24:1.0 | 3 |
| | SP-22 | TF5S21ZZ | 50 | 10,000 | 2,000 CT/500§ | 1.0 | 1,050.0 | 146.0/168.0§ | 4.48:1.0:1.0 | 4 |
| | SP-29 | TF5S21ZZ | 50 | 10,000 CT | 500 CT | 1.0 | 1,050.0 | 80.0 | 4.47:1.0 | 3 |
| | SP-33 | TF5S21ZZ | 50 | 1,000 | 50 | 3.0 | 145.0 | 8.0 | 4.4:1.0 | 1 |
| | SP-42 | TF5S21ZZ | 50 | 150 CT | 12 | 10.0 | 18.0 | 2.7 | 3.54:1.0 | 2 |
| | SP-48 | TF5S21ZZ | 50 | 7,500 CT | 12 | 1.0 | 796.0 | 2.9 | 25.0:1.0 | 2 |
| | SP-49 | TF5S21ZZ | 50 | 300 CT | 600 | 7.0 | 41.0 | 98.0 | 1.0:1.42 | 2 |
| | SP-50 | TF5S21ZZ | 50 | 500 CT | 600 | 3.0 | 67.0 | 98.0 | 1.0:1.1 | 2 |
| | SP-51 | TF5S21ZZ | 50 | 900 CT | 600 | 4.0 | 104.0 | 96.0 | 1.22:1.0 | 2 |
| | SP-52 | TF5S21ZZ | 50 | 1,500 CT | 600 | 3.0 | 168.0 | 92.0 | 1.58:1.0 | 2 |
| | SP-66 | TF5S21ZZ | 50 | 10,000 CT | 10,000 CT | 1.0 | 1,000.0 | 1,300.0 | 1.0:1.0 | 3 |
| SP-67 | TF5S21ZZ | 50 | 600 CT | 600 CT | 3.0 | 72.0 | 92.0 | 1.0:1.0 | 3 | |
| SP-68 | TF5S21ZZ | 50 | 10,000 | 10,000 CT/2,500§ | 1.0 | 1,000.0 | 565.0/650.0§ | 2.1:1.0 | 4 | |
| SP-69 | TF5S21ZZ | 50 | 600 | 600 CT/150§ | 3.0 | 72.0 | 40.0/45.0§ | 2.0:1.0:1.0 | 4 | |
| SP-70 | TF5S21ZZ | 50 | 600 | 600 | 3.0 | 72.0 | 92.0 | 1.0:1.0 | 1 | |
| E | SP-128 | TF5S21ZZ | • | 0.1H | • | 5.0 | 15.0 | • | • | 5 |
| | SP-310 | Shield Only | | | | | | | | |

CT = Center Tap § Split secondary

:: Outline Dimensions

Technical Notes

1. Plug-in terminals are precision spaced to provide fixed mounting centers.
2. Red Spec transformers are hi-pot tested at 1,000 VRMS.
3. 150 VDC working voltage.
4. Red Spec transformers feature small footprint base dimensions of .310 by .410 inch.
5. Pin diameter = .020 inch.

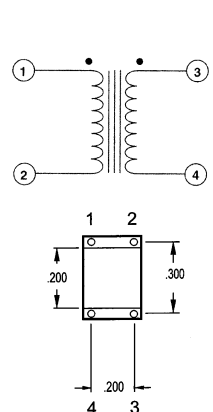


Figure 1

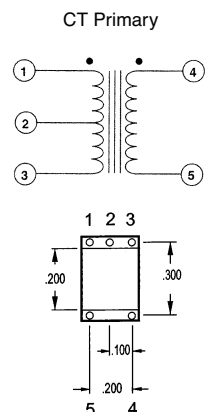


Figure 2

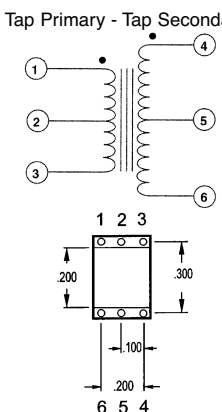


Figure 3

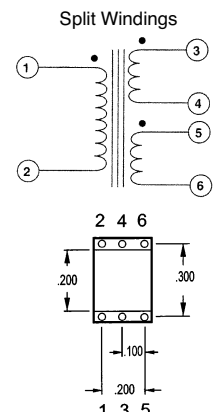


Figure 4

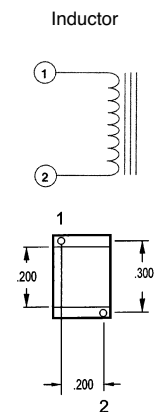


Figure 5