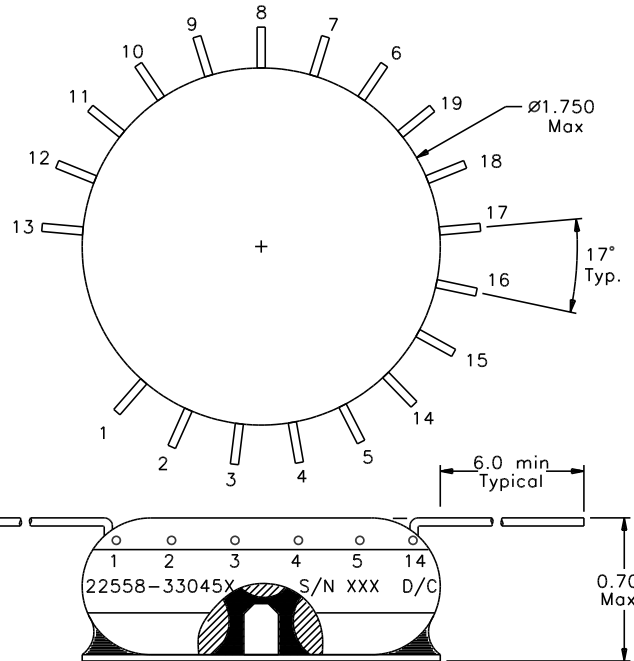


| REVISIONS | | | |
|-----------|-------------|------|----|
| REV. | DESCRIPTION | DATE | BY |
| | | | |



Classification

MIL-PRF-27 Grade: 6
 MIL-PRF-27 Class: S (130° C)
 Maximum Ambient Temperature: 105° C

MIL-STD-981 Quality Assurance Provisions

| Class | Description | Drawing Number ¹ |
|-------|--------------------|---|
| C | Commercial Parts | 33045-30 |
| B | Group A Inspection | 33045-31B |
| E | Group A Inspection | 33045-31S |
| S | Group A Inspection | 33045-31S and Group B Inspection 33045-85 |

¹ The germane data will ship with the hardware.

| LOAD CONDITIONS | | | |
|-------------------------------------|------------------|-----------------------------|--|
| E(1 - 3) = 34Vp-p, 3kHz Square Wave | | | |
| 4 - 5 = no load | 6 - 7 = 0.45 W | 8 - 9 = 1.18 W | |
| 10 - 11 = 0.28 W | 12 - 13 = 0.28 W | 14 - 16 = 0.47 W | |
| 17 - 19 = 0.13 W | | P _{TOTAL} = 2.79 W | |

Electrical Characteristics

| | | |
|----------------|--------------------|--------------------|
| DC Resistance: | (1 - 2) = 705 mΩ | (12 - 13) = 11.8 Ω |
| (Maximum) | (2 - 3) = 705 mΩ | (14 - 15) = 957 mΩ |
| | (4 - 5) = 822 mΩ | (15 - 16) = 957 mΩ |
| | (6 - 7) = 11.8 Ω | (17 - 18) = 868 mΩ |
| | (8 - 9) = 11.8 Ω | (18 - 19) = 868 mΩ |
| | (10 - 11) = 11.8 Ω | |

| | | |
|---------------|-----------------|-------------------|
| Turns Ratio | 2 - 3/1 - 3 | = 0.500 ± 0.002 |
| and Polarity: | 15 - 16/14 - 16 | = 0.500 ± 0.001 |
| | 18 - 19/17 - 19 | = 0.500 ± 0.002 |
| | 4 - 5/1 - 2 | = 0.2440 ± 0.0007 |
| | 14 - 15/1 - 2 | = 0.637 ± 0.002 |
| | 18 - 19/1 - 2 | = 0.333 ± 0.001 |
| | 1 - 2/6 - 7 | = 0.715 ± 0.005 |
| | 1 - 2/8 - 9 | = 0.715 ± 0.005 |
| | 1 - 2/10 - 11 | = 0.715 ± 0.005 |
| | 1 - 2/12 - 13 | = 0.715 ± 0.005 |

Volt-Seconds (1 - 2) at I_{pk} = 50 mA±10%, 1000 Hz, R_s = 20Ω:
 3.8 mV-S Minimum

Leakage Inductance (1 - 2) at 0.5V, 100kHz, Short Leads 4 through 19:
 32 μH Maximum

These Parts Are Manufactured in Strict Compliance to MIL-STD-981.

| | | | | | |
|---|---|--|------------------------------------|--------------------------|--------------|
| The "X" in the part number refers to the Quality Level (C, B, E, or S), see Quality Assurance Provisions above. | UNLESS OTHERWISE SPECIFIED: Dimensions are in inches, and tolerances are: Fractions Decimals Angles ±1/64 .X = ±0.1 ±5° .XX = ±0.03 .XXX = ±0.010 | | COAST/ACM | | |
| | DRAWN BY DATE | | TITLE Transformer, Power | | |
| | Jim Allen 09/12/03 | | FSCM 22558 | DWG. NO 33045X | REV. |
| | DO NOT SCALE DRAWING | | SCALE: none | MAX. WT.: 72 grams | SHEET 1 OF 1 |