

REVISIONS			
REV.	DESCRIPTION	DATE	BY

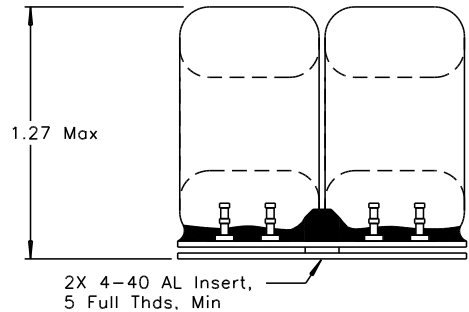
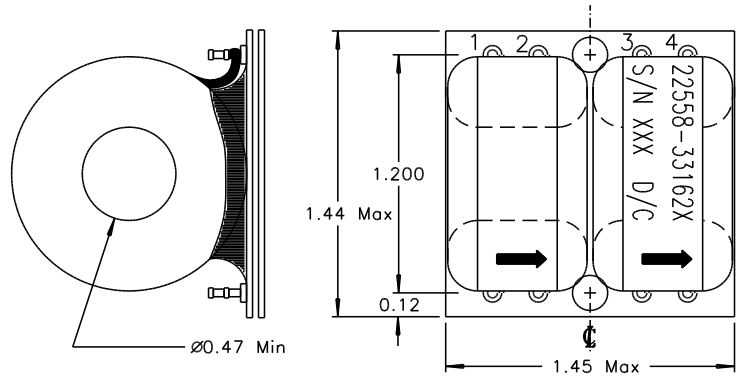
Classification

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	33162-30
B	Group A Inspection	33162-31B
E	Group A Inspection	33162-31S
S	Group A Inspection	33162-31S and
	Group B Inspection	33162-85

¹ The germane data will ship with the hardware.



Black Arrows denotes direction of current flow.

Electrical Characteristics

DC Resistance: (1 - 2) = 125 Ω Maximum
 (3 - 4) = 125 Ω Maximum

LOAD CONDITIONS	
E (1 - 2) = 20VRMS, 2000 Hz	
E (3 - 4) = 20VRMS, 2000 Hz	PTOTAL < 0.8W

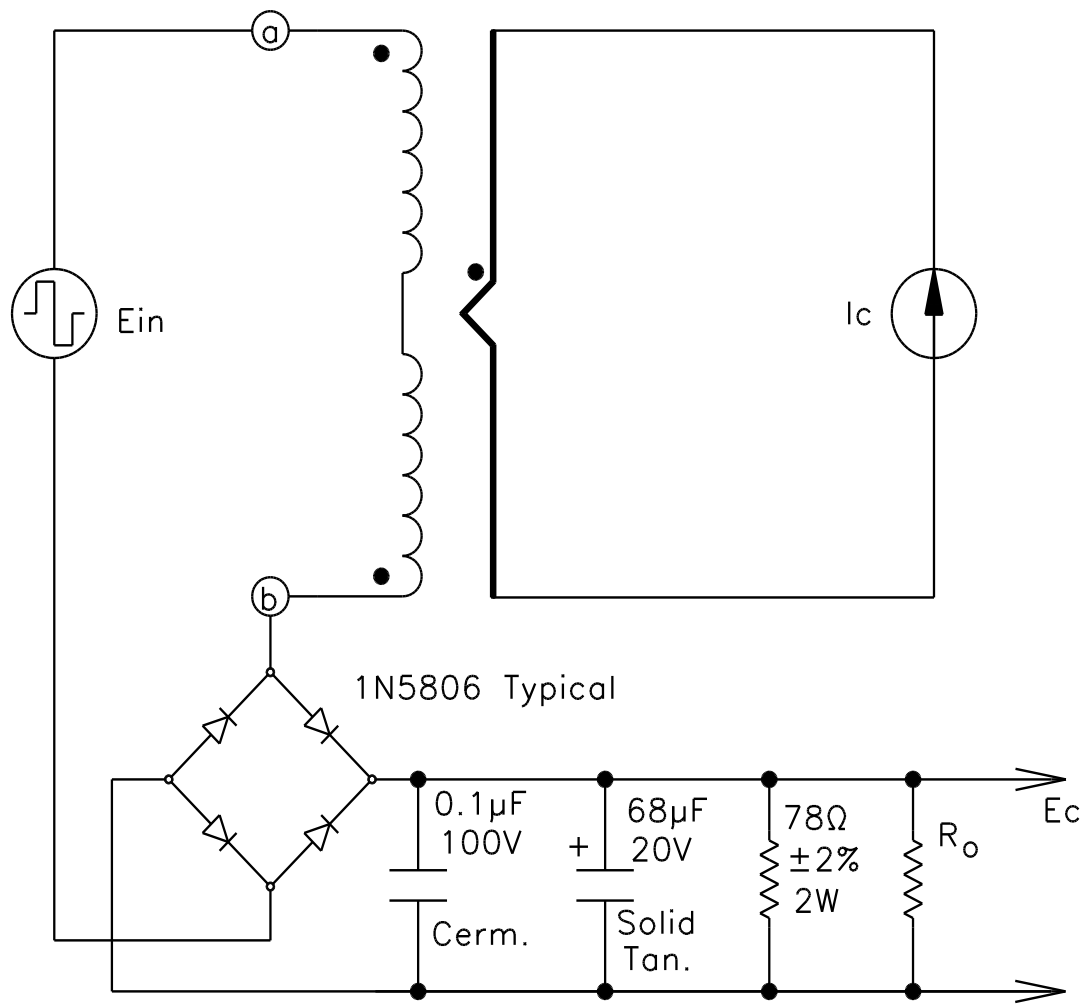
Volt-Seconds, measured at 1000 Hz, I_{pk} = 100 mA ± 10%, R_s = 20Ω: 1 - 2 = 20.0 mV-Sec Minimum
 3 - 4 = 20.0 mV-Sec Minimum

Core Matching: Evidence of core matching per 33162-94 shall accompany each shipment.

Transfer Characteristics: Per Sheet 2

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:		COAST/ACM			
	Fractions	Decimals				Angles
	±1/64	.X = ±0.1 .XX = ±0.02 .XXX = ±0.010	±5°	TITLE Transformer, Current Monitor	FSCM 22558	DWG. NO 33162X
DO NOT SCALE DRAWING	DRAWN BY Jim Allen	DATE 05/28/04	SCALE: none	MAX. WT.: 53 grams	SHEET 1 OF 1	



Transfer Characteristics:

Set $E_{in} = 58 \text{ V Pk-Pk}$ (Square Wave) at 2000 Hz

Route 1 turn I_c cable $> 6"$ from core, before and after going through the core.

Select R_o for best transfer characteristics curve for both windings.

Note: Substitute terminals 1 and 2 for **a** and **b** in the schematic and test, then substitute terminals 3 and 4 for **a** and **b** in the schematic and re-test

I_c (A)	E_c (V)
0	0 - 0.200
+10	0.083 - 0.483
+20	0.366 - 0.766
+40	0.933 - 1.330
+60	1.500 - 1.900
+90	2.350 - 2.750
+120	3.200 - 3.600
+150	4.050 - 4.450
+180	4.900 - 5.300

UNLESS OTHERWISE SPECIFIED:
Dimensions are in inches, and
tolerances are:

Fractions $\pm 1/64$	Decimals .XX = ± 0.03 .XXX = ± 0.010	Angles $\pm 5^\circ$
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COAST/ACM

TITLE
Transformer, Current Monitor

FSCM 22558	DWG. NO 33162X
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DO NOT SCALE

SCALE: none SHEET 2 OF 2