

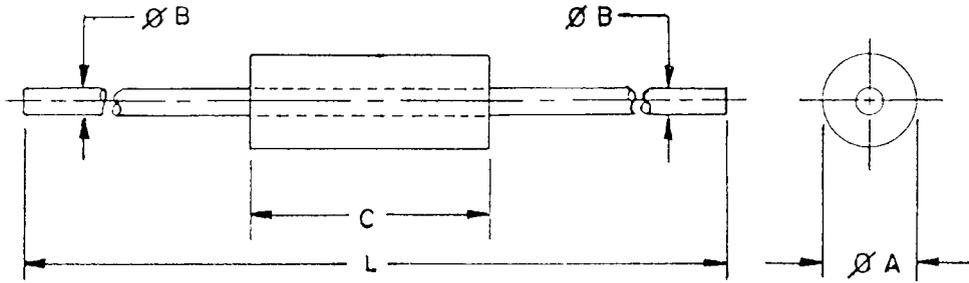
NOTICE OF REVISION (NOR)				1. DATE (YYMMDD) 031113		Form Approved OMB No. 0704-0188	
THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.							
Public reporting burden for this collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.						2. PROCURING ACTIVITY NO.	
						3. DODAAC	
4. ORIGINATOR		b. ADDRESS (Street, City, State, Zip Code) Defense Supply Center, Columbus P. O. Box 3990 Columbus, OH 43216-5000			5. CAGE CODE 14933		6. NOR NO. 5950-R001-03
a. TYPED NAME (First, Middle Initial, Last) Gene Ebert					7. CAGE CODE 14933		8. DOCUMENT NO. 90029
9. TITLE OF DOCUMENT SHIELDING BEADS, FERRITE				10. REVISION LETTER		11. ECP NO. No users listed.	
				a. CURRENT A	b. NEW B		
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES All							
13. DESCRIPTION OF REVISION Page 1: Add notes: "Previous CAGE 14933 superseded by 037Z3" and "INACTIVE FOR NEW DESIGN, SEE TABLE II, SUPERSESSION DATA". Page 7: Change paragraph 6.4 to 6.5. Insert the following; 6.4 <u>Supersession data</u> . Devices covered by this drawing are replaced by Commercial Item Description stated in table II.							
Table II. <u>Supersession data</u> .							
MILITARY P/N	Superseded by PIN	MILITARY P/N	Superseded by PIN	MILITARY P/N	Superseded by PIN	MILITARY P/N	Superseded by PIN
90029-001	AA55484-001	90029-009	AA55484-009	90029-017	AA55484-017	90029-025	AA55484-025
90029-002	AA55484-002	90029-010	AA55484-010	90029-018	AA55484-018	90029-026	AA55484-026
90029-003	AA55484-003	90029-011	AA55484-011	90029-019	AA55484-019	90029-027	AA55484-027
90029-004	AA55484-004	90029-012	AA55484-012	90029-020	AA55484-020	90029-028	AA55484-028
90029-005	AA55484-005	90029-003	AA55484-013	90029-021	AA55484-021	90029-029	AA55484-029
90029-006	AA55484-006	90029-014	AA55484-014	90029-022	AA55484-022	90029-030	AA55484-030
90029-007	AA55484-007	90029-015	AA55484-015	90029-023	AA55484-023		
90029-008	AA55484-008	90029-016	AA55484-016	90029-024	AA55484-024		
14. THIS SECTION FOR GOVERNMENT USE ONLY							
a. (X one)	X	(1) Existing document supplemented by the NOR may be used in manufacture.					
		(2) Revised document must be received before manufacturer may incorporate this change.					
		(3) Custodian of master document shall make above revision and furnish revised document.					
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT DSCC-VAT				c. TYPED NAME (First, Middle Initial, Last) KENDALL COTTONGIM			
d. TITLE CHIEF, ELECTRONICS COMPONENTS TEAM			e. SIGNATURE KENDALL COTTONGIM			f. DATE SIGNED (YYMMDD) 031113	
15a. ACTIVITY ACCOMPLISHING REVISION DSCC-VAT			b. REVISION COMPLETED (Signature) Gene Ebert			c. DATE SIGNED (YYMMDD) 031113	

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	Dimension "C" of dash numbers -002, -003, -004, -005, -006, -007, and -027 in the dimensions and configuration table has been corrected. Editorial changes throughout.	13 Apr 92	<i>D. Moore</i>

prepared in accordance with DOD-STD-100

REV																				
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REV STATUS	REV	A	A	A	A	A	A	A												
PAGES	PAGES	1	2	3	4	5	6	7												

TIC N/A Original date of drawing: 28 Jan 1991	PREPARED BY Ken R. Beymer		DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO	
	CHECKED BY Tony J. Westphal		TITLE SHIELDING BEADS, FERRITE, LEADED, EMI SUPPRESSOR	
	APPROVED BY Randy Larson			
	SIZE A	CODE IDENT. NO. 14933		DWG NO.
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Dash number	Dimensions			
	A	B "through core"	C	L
001	.138 ±.010	#22 AWG TCW	.175 ±.010	2.375/2.500
002	.138 ±.010	#22 AWG TCW	.350 ±.020	2.375/2.500
003	.138 ±.010	#22 AWG TCW	.263 ±.010	2.375/2.500
004	.138 ±.010	#22 AWG TCW	.300 ±.020	2.375/2.500
005	.138 ±.010	#22 AWG TCW	.236 ±.010	2.375/2.500
006	.138 ±.010	#22 AWG TCW	.375 ±.010	2.375/2.500
007	.138 ±.010	#22 AWG TCW	.450 ±.015	2.375/2.500
008	.138 ±.010	#22 AWG TCW	.545 ±.025	2.375/2.500
009	.385 ±.010	#20 AWG TCW	.450 ±.015	2.375/2.500
010	.385 ±.010	#20 AWG TCW	.550 ±.020	2.375/2.500
011	.385 ±.010	#20 AWG TCW	.650 ±.020	2.375/2.500
012	.138 ±.010	#22 AWG TCW	.206 ±.010	2.375/2.500
013	.138 ±.010	#22 AWG TCW	.175 ±.010	2.375/2.500
014	.138 ±.010	#22 AWG TCW	.350 ±.020	2.375/2.500
015	.138 ±.010	#22 AWG TCW	.263 ±.010	2.375/2.500
016	.138 ±.010	#22 AWG TCW	.300 ±.020	2.375/2.500
017	.138 ±.010	#22 AWG TCW	.236 ±.010	2.375/2.500
018	.138 ±.010	#22 AWG TCW	.375 ±.010	2.375/2.500
019	.138 ±.010	#22 AWG TCW	.450 ±.015	2.375/2.500

FIGURE 1. Dimensions and configuration.

DEFENSE ELECTRONICS SUPPLY CENTER
DAYTON, OHIO

SIZE
A

CODE IDENT. NO.
14933

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90029

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Dash number	Dimensions			
	A	B "through core"	C	L
020	.385 ±.010	#22 AWG TCW	.545 ±.025	2.375/2.500
021	.138 ±.010	#22 AWG TCW	.206 ±.010	2.375/2.500
022	.138 ±.010	#22 AWG TCW	.175 ±.010	2.375/2.500
023	.138 ±.010	#22 AWG TCW	.350 ±.020	2.375/2.500
024	.138 ±.010	#22 AWG TCW	.263 ±.010	2.375/2.500
025	.138 ±.010	#22 AWG TCW	.300 ±.020	2.375/2.500
026	.138 ±.010	#22 AWG TCW	.236 ±.010	2.375/2.500
027	.138 ±.010	#22 AWG TCW	.375 ±.010	2.375/2.500
028	.138 ±.010	#22 AWG TCW	.450 ±.015	2.375/2.500
029	.138 ±.010	#22 AWG TCW	.545 ±.025	2.375/2.500
030	.138 ±.010	#22 AWG TCW	.206 ±.010	2.375/2.500

INCHES	MM	INCHES	MM
.010	.26	.350	8.89
.015	.38	.375	9.53
.020	.51	.385	9.78
.025	.64	.450	11.43
.138	3.51	.545	13.84
.175	4.45	.550	13.97
.206	5.23	.650	16.51
.236	5.99	2.375	60.33
.263	6.68	2.500	63.50
.300	7.62		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. All wire extends thru core.

FIGURE 1. Dimensions and configuration - Continued

DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO	SIZE A	CODE IDENT. NO. 14933	DWG NO. 90029
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TABLE I. Impedance values.

Dash number 90029-	Impedance (Z) in ohms				Dash number 90029-	Impedance (Z) in ohms			
	10 MHz	25 MHz	100 MHz	250 MHz		10 MHz	25 MHz	100 MHz	250 MHz
001	---	39 min.	54 - 82	---	016	---	---	90 min.	115 - 173
002	---	70 min.	106 - 160	---	017	---	---	70 min.	90 - 136
003	---	52 min.	80 - 120	---	018	---	---	112 min.	144 - 216
004	---	60 min.	88 - 132	---	019	---	---	135 min.	170 - 255
005	---	48 min.	72 - 109	---	020	---	---	163 min.	206 - 310
006	---	77 min.	120 - 180	---	021	---	---	61 min.	80 - 120
007	---	93 min.	144 - 216	---	022	38 min.	49 - 73	---	---
008	---	114 min.	176 - 264	---	023	75 min.	92 - 138	---	---
009	---	154 min.	216 - 325	---	024	56 min.	69 - 103	---	---
010	---	188 min.	264 - 397	---	025	64 min.	79 - 118	---	---
011	---	224 min.	312 - 469	---	026	50 min.	62 - 93	---	---
012	---	43 min.	66 - 98	---	027	88 min.	108 - 162	---	---
013	---	---	50 min.	72 - 108	028	100 min.	124 - 187	---	---
014	---	---	105 min.	134 - 202	029	121 min.	152 - 228	---	---
015	---	---	78 min.	100 - 150	030	44 min.	54 - 82	---	---

3.2.3 Operating temperature range. The operating temperature range shall be -54°C to +110°C.

3.3 Optional packaging. A suffix "T" shall be added to the part number (see 1.2) when optional packaging is required. (see 6.2f.)

3.4 Marking. Parts shall not be marked. The unit package shall be marked with the drawing PIN, manufacturer's part number, and source code.

3.5 Workmanship. The ferrite beads shall be fabricated and finished in such a manner that criteria for appearance, fit, and adherence to specific tolerances shall be observed. The bead shall be uniform in quality and shall be free from defects that will affect life or serviceability.

3.6 Electrical ratings.

3.6.1 Impedance (Ω). Impedance shall be as specified in table I. All impedances are measured with 1 turn of wire through the ferrite bead.

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4. QUALITY ASSURANCE PROVISIONS

4.1 Quality conformance inspection.

4.1.1 Inspection of product for delivery. Inspection of product for delivery shall consist of the group A inspection.

4.1.1.1 Group A inspection. Group A inspection shall consist of the inspections specified in table II in the order shown.

TABLE II. Group A inspection.

Inspection	Requirement paragraph	AQL (percent defective)	
		Major	Minor
Visual and mechanical inspection		2.5	4.0
Dimensions	3.2.1		
Impedance	3.6.1		

4.1.1.1.1 Sampling plan. Statistical sampling and inspection shall be in accordance with MIL-STD-105, general inspection level II. The acceptable quality level (AQL) shall be as specified in table II herein. Major and minor defects shall be as specified in MIL-STD-105.

4.1.1.1.2 Rejected lots. If an inspection lot is rejected, the contractor may rework it to correct the defects, or screen out the defective units, and resubmit for reinspection. Resubmitted lots shall be inspected using tightened inspection. Such lots shall be separate from new lots, and shall be clearly identified as reinspected lots.

4.1.2 Certification. The acquiring activity, at its discretion, may accept a certificate of compliance with group A requirements in lieu of performing group A inspection (see 6.2).

4.1.3 Inspection of packaging. The inspection of commercial packaging shall be as specified in the contract or purchase order (see 6.2).

5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be as specified in the contract or purchase order.

6. NOTES

6.1 Intended use. Devices conforming to this drawing are intended for use when military specifications do not exist and qualified military devices that will perform the required function are not available for OEM application.

6.2 Ordering data. The acquisition document should specify the following:

- a. Complete PIN (see 1.2)
- b. Requirements for delivery of one copy of the quality conformance inspection data with each shipment of parts by the manufacturer (when applicable, see 4.1.2).
- c. Whether the manufacturer performs the group A inspection or provides a certificate of compliance with group A requirements.
- d. Requirements for notification of change of product to acquiring activity, if applicable.
- e. Requirements for packaging and packing.
- f. Whether the leaded bead should be taped and reeled for automatic insertion equipment.

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6.3 Replaceability. Devices covered by this drawing will replace the same commercial device covered by a contractor-prepared specification or drawing.

6.4 Suggested sources of supply. Suggested sources of supply are listed herein. Additional suggested sources of supply will be added as they become available. For assistance in the use of this drawing, contact DESC-E, 1507 Wilmington Pike, Dayton, OH 45444-5283, or telephone (513)296-6189.

DESC drawing PIN 90029-	Vendor similar PIN ^{1/}
001	2743001111
002	2743002111
003	2743003111
004	2743004111
005	2743005111
006	2743007111
007	2743008111
008	2743009111
009	2743012201
010	2743013211
011	2743014221
012	2743015111
013	2761001111
014	2761002111
015	2761003111
016	2761004111
017	2761005111
018	2761007111
019	2761008111
020	2761009111
021	2761015111
022	2773001111
023	2773002111
024	2773003111
025	2773004111
026	2773005111
027	2773007111
028	2773008111
029	2773009111
030	2773015111

^{1/} CAUTION: Do not use this number for item acquisition and marking. The similar vendor PIN may not satisfy the performance requirements of this drawing.

Vendor CAGE
number

34899

Vendor name
and address

Fair-Rite Products Corporation
One Commercial Row
Wallkill, NY 12589

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