

DATE <u>10/25/54</u>	TMC SPECIFICATION NO. S-231	
SH. <u>1</u> OF <u>2</u>		
COMPILED BY AJJ	TITLE: PURCHASING SPEC., FILTER, DISCRIMINATOR FD 117	JOB A
APPROVED <u>A. J. J.</u>		

1. ELECTRICAL:

A. CHARACTERISTICS:

It is required that no unit is to be passed which does not meet specification S - 176 when checked with Laboratory Test Set 100.

B. CONSTRUCTION:

All units are to be electrically constructed according to TMC chart CH - 129.

(a). Each parallel resonant combination shall be resonated within ± 2 cps of the frequency specified on CH - 129 while using an adjustment procedure which leaves the circuit relatively unloaded.

(All inductors have been designed with approximately a five percent excess in inductance to facilitate such an adjustment.)

C. COMPONENTS:

- (a). All toroids shall be impregnated while under vacuum.
- (b). All completed discriminator cans shall be hermetically sealed and filled while under vacuum.
- (c). Although chart CH - 129 calls for "F" temperature coefficient capacitors, "E" units may be used. In all cases, however, the capacitors shall be silver mica units although, not necessarily, the Cornell-Dubilier Super Micadon as originally called for.
- (d). Toroid cores shall be stabilized and shall have temperature coefficient characteristics at least as good as the Arnold Engineering Company D-671157-3.
- (e). All components shall be rigidly mounted before potting.
- (f). All inductors shall be wound for maximum Q.

D. DESIGNATION:

The discriminators shall be designated as follows:

<u>Center Frequency</u>	<u>Part Number</u>
2125 cps	FD 117 - 2125
2295	FD 117 - 2295
2465	FD 117 - 2465
2635	FD 117 - 2635
2805	FD 117 - 2805

TMC SPECIFICATION

NO. S 231

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CHECKED:

APPD:

SHEET 2 OF 2

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2. PHYSICAL:

A. DIMENSIONS:

The unit shall be inclosed in a can conforming to TMC dwg BX111.

B. PRINTING:

(a). The following lettering shall appear on each can top and shall be stamped in paint to prevent easy removal:

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

FD 117 _____

where the assigned center frequency shall appear in the blank space.
(b). No designation relating the finished product to the original manufacturer shall appear anywhere on the can.

C. PAINTING:

(a). The unit shall be painted TMC grey according to TMC S-115 but using, instead, a paint which requires baking at a temperature not to exceed 240° F.

D. POTTING:

(a). The unit shall be potted with a medium temperature wax having good creep characteristics such as the Zophar Mills, Inc. No. 1563.

The manufacturer shall be supplied with TMC prints as follows:

CH-129	CL-200	
CM-108	RB-100	CX-277
FD-117	BX-111	S-206

