

TECHNICAL NOTE TN-1185

Addendum to TN-538A (Improving MRF555 and MRF630 Transistor Reliability)

14 June 2006

Applicability

This Technical Note (TN) applies to T857 and T877 Exciter PCBs as shown in [Table 1](#):

	T857	T877
Series I	All	PCB 220-01140-04
Series II	PCB 220-01398-02	PCB 220-01398-02

Table 1 TN-538A Applicability

Note: Exciters used in normal repeater, base station or trunking control channel applications are not prone to the problem addressed by this technical note.
See Introduction.

1. Introduction

This Technical Note is an addition to the procedure outlined in TN-538A and should be performed whenever the TN538A modifications are done. In Series I & II exciters there are 3 capacitors that have shown to be weak points, and these are worth replacing when performing TN-538A to prevent future failures.

2. Procedure

Series II T857/T877

Capacitors to be replaced are C321, C323, & C321 as shown in Figure 1.

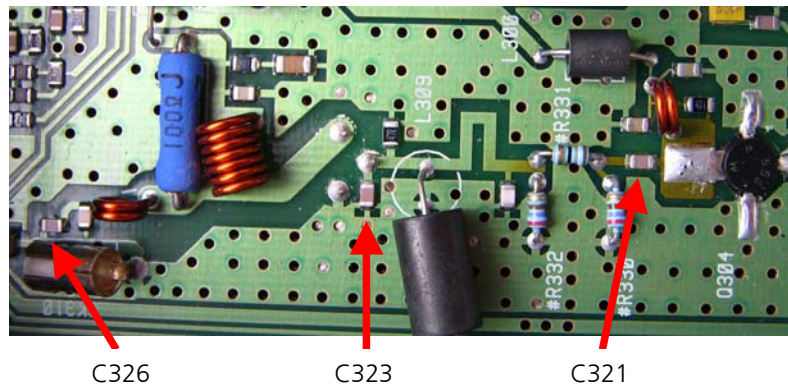


Figure 1. Location of caps in Series II.

C321: 015-22220-01 (CAP cer 22p NPO 50V 5% 0805)

C323: 015-22330-01 (CAP cer 33p NPO 50V 5% 0805)

C326: 015-21470-01 (CAP cer 4p7 ±.25pF 50V 0805)

Series I T857/T877

Capacitors to be replaced are C313, C319, & C321 as shown in Figure 2.

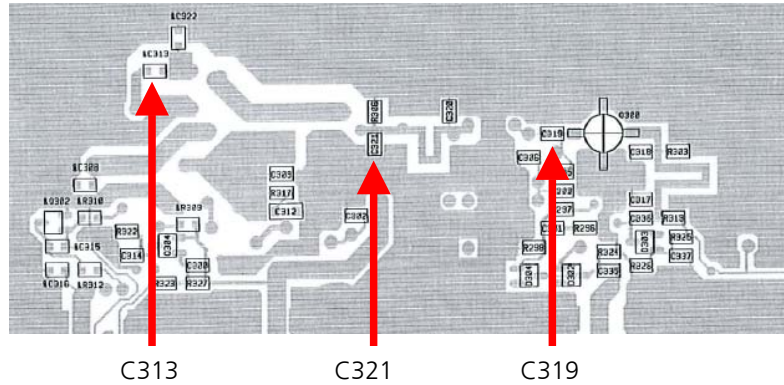


Figure 2. Location of caps in Series I (Drive Amp cavity)

C313 & C319: 015-22220-01 (CAP cer 22p NPO 50V 5% 0805)
C321: 015-22330-01 (CAP cer 33p NPO 50V 5% 0805)

Compliance Issues None.

CSO Instruction None.

3. Issuing Authority

Name and Position of Issuing Officer Simon Nieper
Technical Support Engineer

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