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## Technical Note TN-787

### T836 Q425 Component Changes

29 July 2003

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#### Applicability

This technical note applies to Series II T836-XX-XXXX transmitters fitted with the SRFH1001 power amplifier transistor.

## 1. Introduction

#### Background

The SRFH1001 transistor used as the power amplifier in the T836 is no longer available. The MRF1946A (IPN 000-00032-90) has been found to be a suitable replacement with a number of component changes. This tech note details these changes which are not in the current manual (M830-00-202) at the time of publication.

## 2. Component Changes

The following tables lists the common component changes:

Circuit Ref	Current Component	Modified Component
Q425	SRFH1001 ipn: 000-00023-23	MRF1946A ipn: 000-00032-90
C442	27pF ipn: 015-02270-02	47pF ipn: 015-02470-06
C445A*		24pF ipn: 029-02240-02
L465	1.5T/3.0 ipn: 052-08130-15	1.5T/4.0 ipn: 052-08140-15

\* Solder on top of C445.

The following component is frequency dependent:

T836-1X-XXXX (136MHz - 156MHz)

Circuit Ref	Current Component	Modified Component
#C448	33pF ipn: 015-2330-02	27pF ipn: 015-02270-02

T836-2X-XXXX (148MHz - 174MHz)

Circuit Ref	Current Component	Modified Component
#C448	27pF ipn: 015-02270-02	22pF ipn: 015-02220-02

### 3. Issuing authority

**Name and position of issuing officer** Jeff Northcott  
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