



UNIVERSITY OF MICHIGAN
COLLEGE OF ENGINEERING
THE RADIATION LABORATORY
DEPARTMENT OF ELECTRICAL ENGINEERING
AND COMPUTER SCIENCE

3228 EECS BUILDING
1301 BEAL AVENUE
ANN ARBOR, MICHIGAN 48109-2122
734 764-0500 FAX 734 647-2106
<http://www.eecs.umich.edu/RADLAB/>

Re: Class II Permissive Change/Re-assessment
for Schrader 5L7T-10150 Transmitter
Model: 5L7T-10150
FCC ID: MRXTG224AM01
IC: 25461021812

POWER OF ATTORNEY

A letter granting Valdis V. Liepa the Power of Attorney is on file and can be provided when so requested.



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REQUEST FOR CONFIDENTIALITY

Pursuant to 47 CFR 0.459, Schrader requests that a part of the subject application be held confidential. This comprises Exhibits

- (5) Schematics
- (9) Internal Photos (DUT is potted)
- (10) Parts List (Part of Exhibit only)

Schrader has spent substantial effort in developing this product and it is one of the first of its kind in industry. Having the subject information easily available to "competition" would negate the advantage they have achieved by developing this product. Not protecting the details of the design will result in financial hardship.

If there are any questions regarding this request, please contact me at the above address or call 734-483-4211, fax 734-647-2106 or e-mail liepa@umich.edu.

Sincerely,

A handwritten signature in black ink that reads "Valdis V. Liepa".

Valdis V. Liepa
Research Scientist
University of Michigan



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August 6, 2005

Re: Class II Permissive Change/Re-assessment
for Schrader 5L7T-10150 Transmitter
Model: 5L7T-10150
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History:

- Original Grant: Jan., 2000; Model MRXTG224AM01, FCC ID: MRXTG224AM01,
CAN: 2541021812
- Class I Change: Nov., 2000; Model MRXTG224AM01, FCC ID: MRXTG224AM01,
CAN: 25461021812; RF transistors changed from Siemens to Philips,
encoding changed from PWM to Manchester format (same duty
factor).
- Class II Change: March 2002; Model MRXTG224AM01, FCC ID: MRXTG224AM01,
IC: 25461021812; improved frequency stability and turn-on times by
running the oscillator continuous and switching the final amp.
- Class II Change: July 2003; Model MRXTG224AM01, FCC ID: MRXTG224AM01,
IC: 25461021812; improved performance by changing transistors and
optimizing relevant components.
- Class I Change: December 2003; Model MRXTG224AM01, FCC ID:
MRXTG224AM01,
IC: 25461021812; add Ford parts (no new models added)
- Class I Change: February 2005; Model MRXTG224AM01, FCC ID: MRXTG224AM01,
IC: 25461021812; add Ford parts for IC Family Previous, SB320117 and
SB320135

Action:

To improve the device performance and reduce cost the following components
were changed. There were no changes made to the PCB layout.

- (1) Change metal valve cap to a plastic cap
- (2) Change capacitor C10 from 1.0nF to 470pF
- (3) Change capacitor C14 from 1.0nF to 470p
- (4) Change capacitor C16 from 2.7pF to 3.3pF
- (5) Change resistor R3 from 0R to 27R
- (6) Change inductor L2 from 120nH to 100nH



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STATEMENT OF MODIFICATIONS

There were no modifications made to the DUT by this test laboratory. (Also see Section 3.1 of the attached Test Report).

A handwritten signature in black ink, reading 'Valdis V. Liepa'.

Valdis V. Liepa
Research Scientist



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GENERAL PRODUCT INFORMATION

The device, for which certification is pursued, has been designed by:

Schrader-Bridgeport International
1609 Airport Rd.
Monroe, NC 28110

Brendan McDonnell
Tel: +44 2894 482078
Fax: +44 2894 468440

It will be manufactured by:

Schrader Electronics Ltd.,
11 Technology Park, Belfast Road
Antrim, N. Ireland.
BT41 1QS

Brendan McDonnell
Tel: +44 2894 482078
Fax: +44 2894 468440

Canadian Contact:

Gates Rubber Company
3303 St. Etienne Boulevard
Windsor, Ontario N8W 5B1
Rick Gatti
Tel: 313 962 1711



American TCB
6731 Whittier Ave.
McLean, VA 22101

Acknowledgement of IC Listing Requirements

By signing this document, we acknowledge that any information specified on the ATCB **Application and Agreement Form for Industry Canada Certification Services** provided with this application may be provided to Industry Canada. We acknowledge that this information may be posted in the Radio Equipment List (REL) on the Department's Web Site. Additionally, we understand that we must inform ATCB of any changes to the information submitted.

We further acknowledge that the Certified product shall not be distributed, leased, or offered for sale in Canada prior to its listing on the Industry Canada Radio Equipment List (REL). We are aware that we may verify the status of this listing at the following web address:

http://strategis.ic.gc.ca/cgi-bin/sc_mrksw/spectrum/reltelSearch/search.pl?lang=e&db=rel

Dated this 17th day of September, 2004.

By: Ken Golden (Signature) Ken Golden (Print name)

Title: RF Design Engineer

email: kgolden@schrader.co.uk

On behalf of: Schrader Electronics
(Company Name)

Telephone: +44(0)28 9448 3090

Attn: Director of Certification

Authority to Act as Agent

I appoint Valdis V. Liepa to act as our agent in the preparation of this application for equipment certification. I certify that submitted documents properly describe the device or system for which equipment certification is sought. I also certify that each unit manufactured, imported or marketed, as defined in Industry Canada's regulations will have affixed to it a label identical to that submitted for approval with this application.

For instances where our authorized agent signs the application for certification on our behalf, I acknowledge that all responsibility for complying with the terms and conditions for Certification, as specified by American TCB, still resides with Ken Golden, 11 Technology Park, Belfast Road, Antrim, Northern Ireland, BT41 1QS.

Dated this 17th day of September, 2004.

Agency Agreement Expiration Date: (Typically 8-12 months)

By: Ken Golden
(Signature)

Ken Golden
(Print name)

Title: RF Design Engineer

On behalf of: Schroder Electronics
(Company Name)

Telephone: +44(0)28 9448 3090