

An IIA Company

RF Exposure Evaluation Report

APPLICANT	FIPLEX COMMUNICATIONS INC.	
ADDRESS	2101 NW 79th Ave. MIAMI FL 33122 USA	
FCC ID	P3TDH7SX	
MODEL NUMBER	DH7SX	
PRODUCT DESCRIPTION	700/800 MHZ DUAL BAND INDUSTRIAL BOOSTER	
DATE SAMPLE RECEIVED	12/19/2018	
FINAL TEST DATE	01/24/2018	
PREPARED BY	Franklin Rose	
TEST RESULTS	🛛 PASS 🗌 FAIL	

Report Number	Report Version	Description	Issue Date
2177AUT18 MPE_TestReport_	Rev1	Initial Issue	02/05/2019

THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.



TABLE OF CONTENTS

GENERAL REMARKS	2
GENERAL INFORMATION	3
ANTENNA INFORMATION	3
MPE CALCULATION	4
MPE TABLE	5
General Uncontrolled Exposure	. 5
General Controlled Exposure	.6



GENERAL REMARKS

Summary

The device under test does:

Fulfill the general approval requirements as identified in this test report and was selected by the customer.

Not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

Timco Engineering Inc. 849 NW State Road 45 Newberry, FL 32669 Designation #: US1070

Prepared by:

Name and TitleFranklin Rose, Project Manager / EMC SpecialistDate02/05/2019



GENERAL INFORMATION

EUT Description	700/800 MHZ DUAL BAND INDUSTRIAL BOOSTER		
Model Number	DH7SX		
EUT Power Source	⊠110–120Vac, 50– 60Hz	□ DC Power	□ Battery Operated
Test Item	Engineering Prototype	☑ Pre-Production	Production
Type of Equipment	⊠ Fixed	□ Mobile	Portable
Antenna Connector	3 external N Type		
Test Conditions	The temperature was 26°C Relative humidity of 50%.		
Modification to the EUT	No Modification to EUT.		
Applicable Standards	FCC CFR 47 Part 2.1091		
Test Facility	Timco Engineering Inc. at 849 NW State Road 45 Newberry, FL 32669 USA. Designation #: US1070		

ANTENNA INFORMATION

Manufacturer Provides Antenna	Туре	Max Gain (dBi)
No	Unspecified	0 dBi

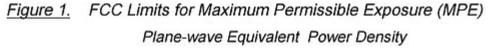


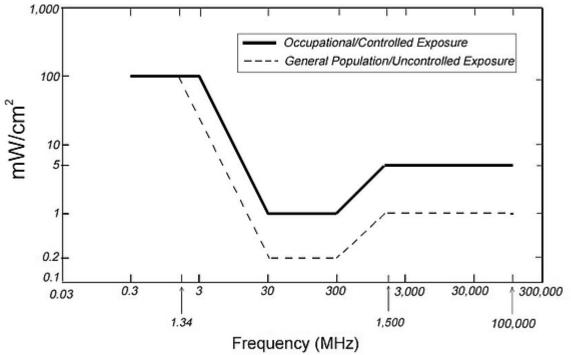
MPE CALCULATION

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power density: $P_d(mW/cm^2) = \frac{E^2}{3770}$

MPE LIMITS





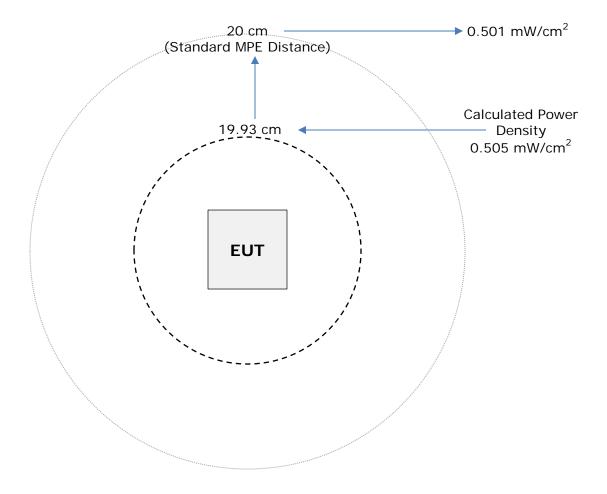


MPE Table

General Uncontrolled Exposure

The limit for General Uncontrolled Exposure Environment is calculated as shown in FCC Pt. 1.1310, Table B:

Variable	Value
Max Power	2.52 W
Frequency Range	758 – 868 MHz
Duty Cycle (at full power)	100%
Max Antenna Gain	0 dBi
Coax Loss	0 dB
Power Density	0.501 mW/cm ²
Minimum Separation Distance	20 cm



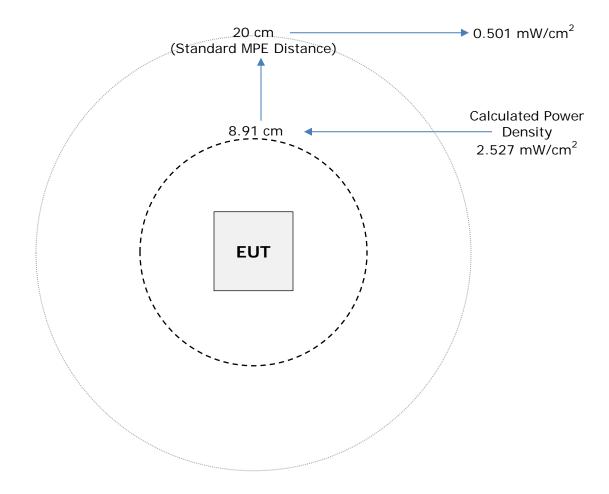
Applicant:FIPLEX COMMUNICATIONS INC.FCC ID:P3TDH7SXReport:2177AUT18 MPE_TestReport_Rev1



General Controlled Exposure

The limit for General Controlled Exposure Environment is calculated as shown in FCC Pt. 1.1310, Table A:

Variable	Value
Max Power	2.52 W
Frequency Range	758 – 868 MHz
Duty Cycle (at full power)	100%
Max Antenna Gain	0 dBi
Coax Loss	0 dB
Power Density	0.501 mW/cm ²
Minimum Separation Distance	20 cm



Applicant:FIPLEX COMMUNICATIONS INC.FCC ID:P3TDH7SXReport:2177AUT18 MPE_TestReport_Rev1