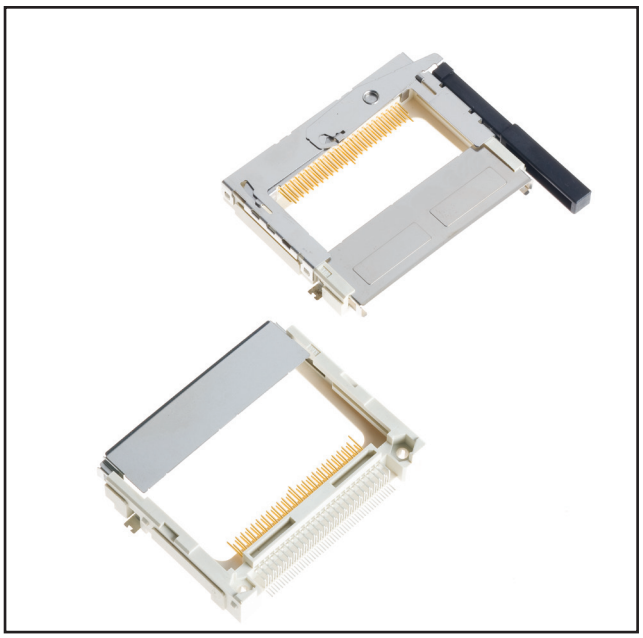
3M™ CF Card Header

CompactFlash™ Type II, Long Guides, Surface Mount — 7E50 Series



- Headers mate with both CompactFlash™ Type I and Type II cards
- Polarization options for top or bottom boardmount
- Extended guide rails enable accurate and easy card insertion
- Single row surface mount solder tails facilitate auto placement and IR soldering
- Optional 2 mm board standoff enables board population
- Meets CFA standards for known compatibility and reliability
- Metal brace provides stability for ejector attachment
- Multiple styles of ejector available
- Optional ejector can be purchased pre-assembled or separately
- Optional Tape and Reel or Tray packaging for automated assembly
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: August 16, 2010

Physical

Insulation:	
Material:	High Temperature Thermoplastic
Flammability:	UL 94V-0
Color:	Beige
Contact:	
Material:	Copper Alloy
Plating:	
Underplating:	2.03 µm [80 µ"] Nickel
Wiping Area:	0.38 µm [15 µ"] or 0.76 µm [30 µ"] Gold
Solder Tails:	3.81µm [150 µ"] Matte Tin or Gold Flash
Marking:	3M Logo

Electrical

Current Rating:	0.5 A
Insulation Resistance:	$10^3\Omega$ at 500 V_{DC}
Withstanding Voltage:	500 V_{AC} for 1 minute

Environmental

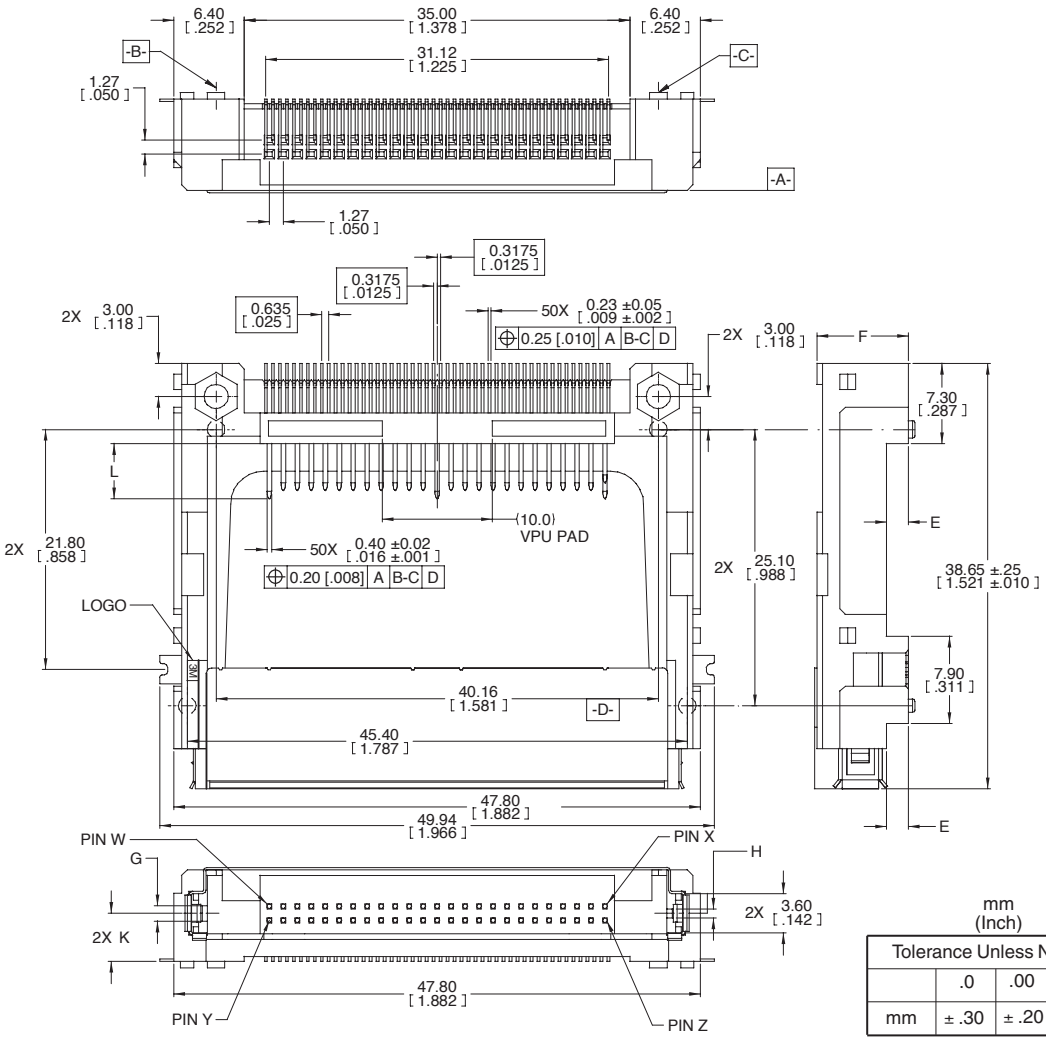
Temperature Rating:	-40°C to +85°C
Process Rating:	Maximum 260 C (per J-STD-020C)
Moisture Sensitivity Level:	1 (per J-STD-020C)

CompactFlash is a registered trademark of Sandisk Corporation.

3M™ CF Card Header

CompactFlash™ Type II, Long Guides, Surface Mount — 7E50 Series

Pin Function	L, Pin length Dim	Pin Position
Detect	3.50 mm [.138"]	25, 26
General Use	4.25 mm [.167"]	All other pins
Power	5.00 mm [.197"]	1, 13, 38, 50



mm (Inch)

Tolerance Unless Noted			
	.0	.00	.000
mm	± .30	± .20	± .10

[ ] Dimensions for Reference only

Note: See TS-2154 for applicable ejectors and drawings of assembled ejectors and headers.

Ordering Information

N7E50 - X516XX - XX - XXX (RIA E1 & C1 apply)

M = CF I & II, 31.60 mm, Normal Type, Metal Guide
N = CF I & II, 31.60 mm, Inverse Type, Metal Guide

Pre-assembled Ejector Option:
Blank = No Ejector
A = Right Dual Push Ejector (7E50-B516-05)
C = Left Dual Push Ejector (7E50-B616-05)

Plating Options:
RA = 0.38 µm [15 µ"] Gold with matte tin tail
RB = 0.76 µm [30 µ"] Gold with matte tin tail
EA = 0.38 um [15 µ"] Gold with Au Flash tail
EB = 0.76 um [30 µ"] Gold with Au Flash tail

Board Standoff:
40 = None
50 = 2.00 mm [.079"]

*Packaging Options:
Blank = Standard White Polystyrene Trays
WF = Tape and Reel (Automated Assembly)
Note: WF option includes molded suction cap for automated pick and place

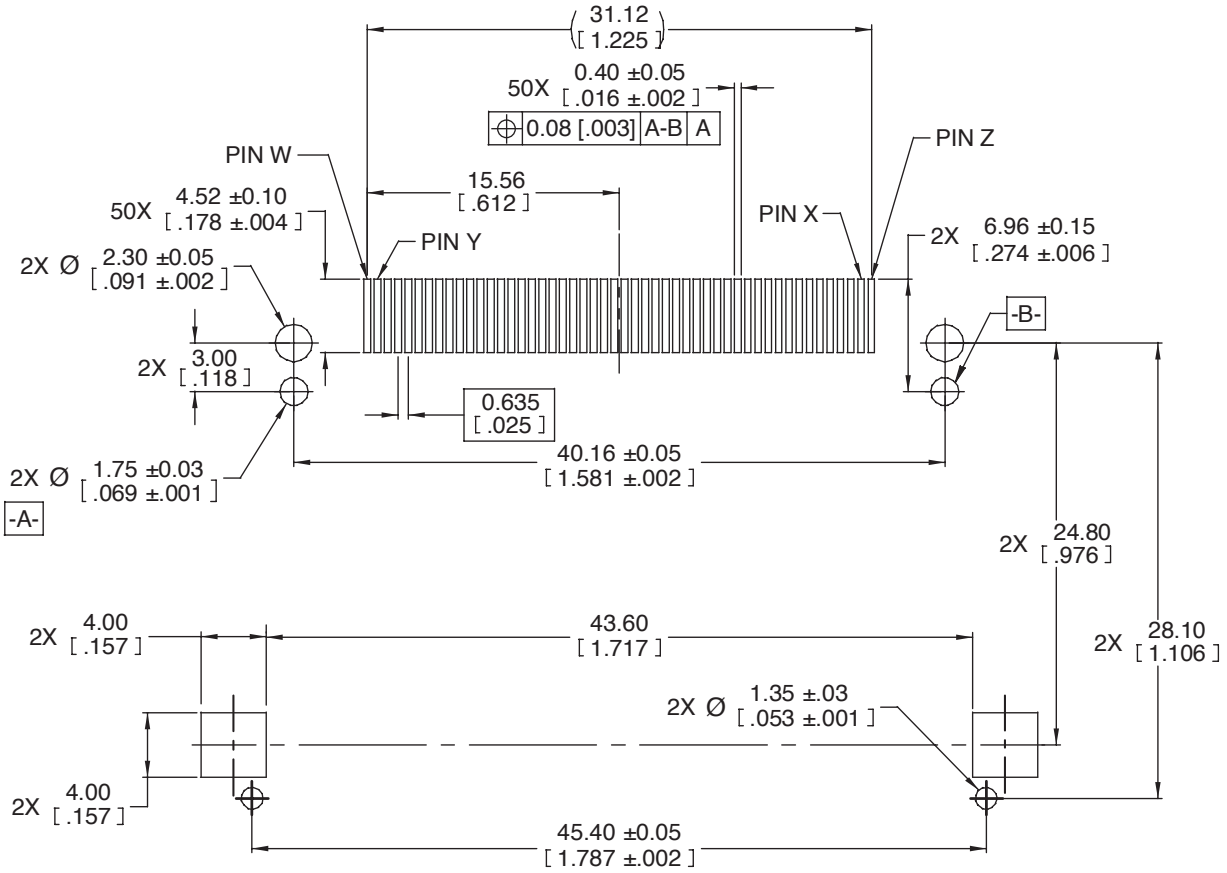
3M
Electronic Solutions Division
Interconnect Solutions
http://www.3Mconnector.com

3M is a trademark of 3M Company.
For technical, sales or ordering information call
800-225-5373

3M™ CF Card Header

CompactFlash™ Type II, Long Guides, Surface Mount — 7E50 Series

Part Number	E mm [inch]	F mm [inch]	G mm [inch]	H mm [inch]	K mm [inch]	Pin W	Pin X	Pin Y	Pin Z
N7E50-M516XX-40	0.00 [.000]	6.30 [.248]	1.40 [0.55]	0.80 [.031]	2.35 [.093]	Pin 1	Pin 25	Pin 26	Pin 50
N7E50-M516XX-50	2.00 [.079]	8.30 [.328]	1.40 [.055]	0.80 [.031]	4.35 [.171]	Pin 1	Pin 25	Pin 26	Pin 50
N7E50-N516XX-40	0.00 [.000]	6.30 [.248]	0.80 [.031]	1.40 [.055]	3.95 [.156]	Pin 50	Pin 26	Pin 25	Pin 1
N7E50-N516XX-50	2.00 [.079]	8.30 [.328]	0.80 [.031]	1.40 [.055]	5.95 [.234]	Pin 50	Pin 26	Pin 25	Pin 1
N7E50-H516XX-50	2.00 [.079]	7.90 [.311]	1.40 [.055]	0.80 [.031]	4.15 [.163]	Pin 1	Pin 25	Pin 26	Pin 50

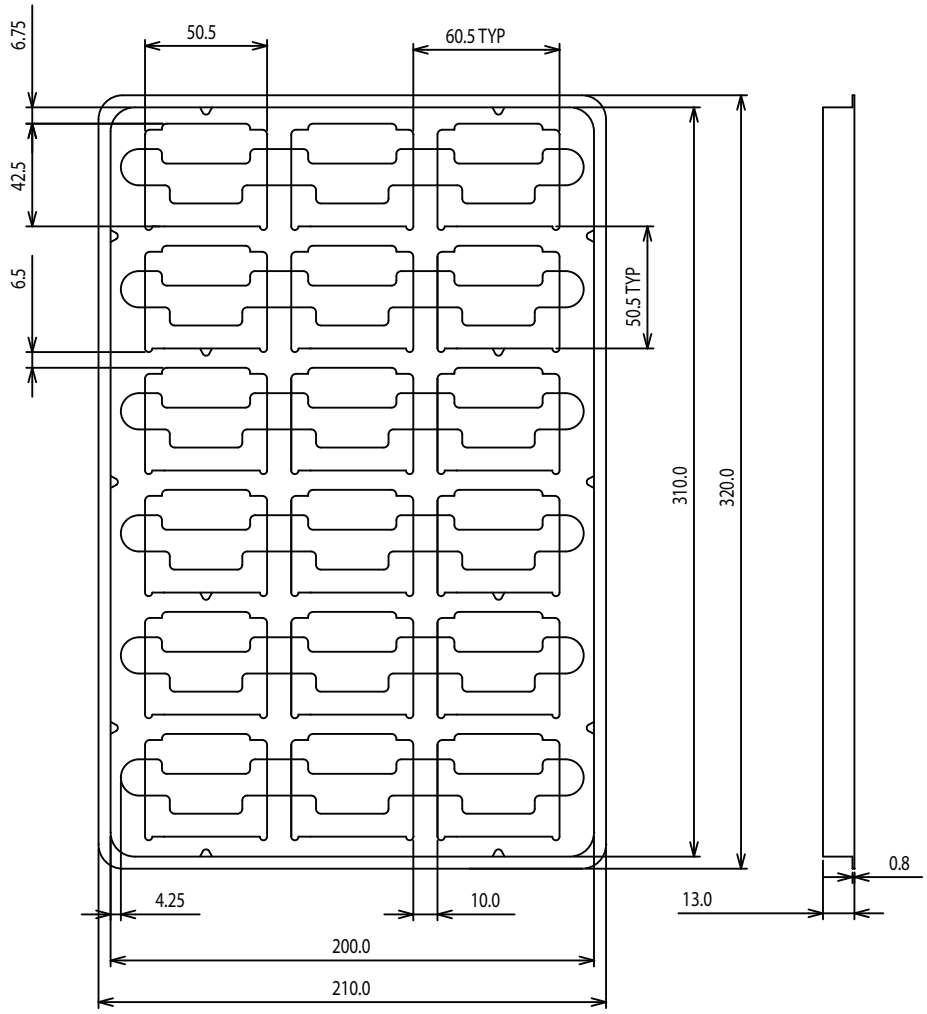


PCB LAYOUT

3M
Electronic Solutions Division
Interconnect Solutions
http://www.3Mconnector.com

3M is a trademark of 3M Company.
For technical, sales or ordering information call
800-225-5373

Standard White Polystrene Trays
(No Eject Attached)



Standard tray notes :

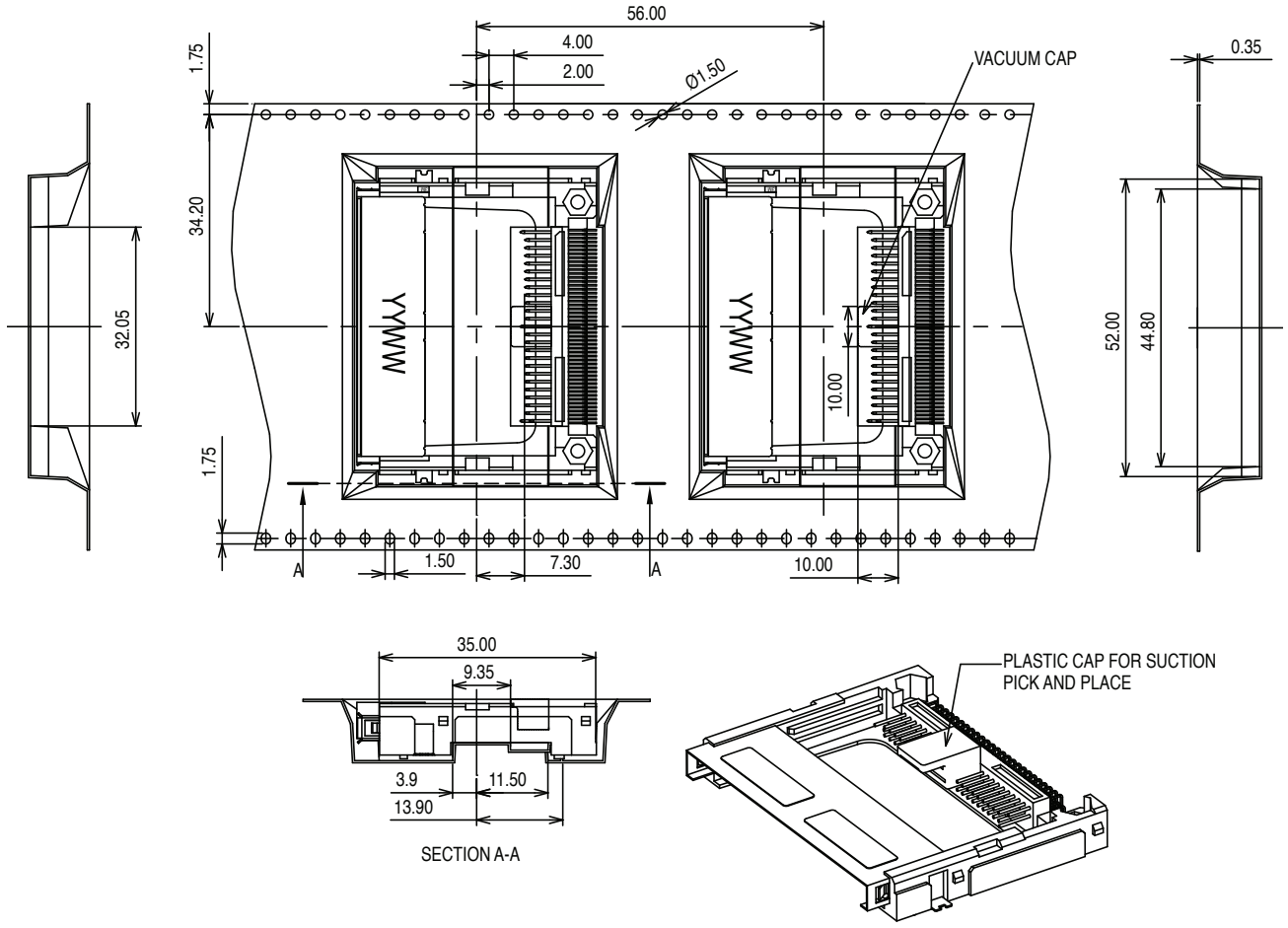
1. Material: PS
2. Packaging quantity:
   1 Tray: 18 pcs
   1 Carton box: 15 trays per carton (270 pcs total)
3. Carton size: 340 mm (L) by 230 mm (W) by 255 mm (H)
4. Standard tray packaging is not suitable for suction-type pick-and-place Operations.
   Pick-and-place capable tray packaging is available on request.
   Contact 3M technical service.
5. For product with pre-assembled ejectors contact 3M technical service for dimensioned drawings.

3M
Electronic Solutions Division
Interconnect Solutions
http://www.3Mconnector.com

3M is a trademark of 3M Company.

For technical, sales or ordering information call
800-225-5373

Tape and Reel for Automated Pick and Place (No Eject Attached)



Notes :

1. Material: PS
2. Packaging quantity
   1 Reel: 100 pcs
   1 Carton: 4 reels per carton (400 pcs total)
3. Carton size: 725 mm (L) by 375 mm (W) by 320 mm (H)
4. For tape and reel packaging with removable vacuum cap for suction pick and place operations
5. For product with attached ejectors contact 3M technical service for dimensioned drawings.

3M

Electronic Solutions Division
Interconnect Solutions
http://www.3Mconnector.com

3M is a trademark of 3M Company.

For technical, sales or ordering information call
800-225-5373

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

3M Electronics Solutions Division
6801 River Place Blvd.
Austin, TX 78726-9000
U.S.A.
1-800-225-5373
www.3Mconnector.com

Please recycle. Printed in USA.
© 3M 2010. All rights reserved.
RIA-2217B-E
3M is a trademark of 3M Company.

OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

AVIC JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

FORSTAR®

Телефон: 8 (812) 309-75-97 (многоканальный)
Факс: 8 (812) 320-03-32
Электронная почта: ocean@oceanchips.ru
Web: http://oceanchips.ru/
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А