



## Connectors & Cable Assemblies Incorporating HDMI™ Technology

### DESCRIPTION

Tyco Electronics' connector incorporating High-Definition Multimedia Interface (HDMI™) technology is an interface for consumer electronics products such as digital television, set-top boxes and DVD players. HDMI supports standard, enhanced, or high-definition video, plus multi-channel audio on a single cable.

### APPLICATIONS

- Digital or High-Definition TV's
- Set-top Boxes
- Video Game Consoles
- DVD Players
- Desktop PC's

### KEY FEATURES

- Simple User Friendly Connector
  - Replaces existing audio and digital cabling in one assembly
  - Easy-to-use friction lock design provides secure electrical contact and smooth cable insertion/extraction
- Full shielding for ESD protection and lead-free process available
- With or without panel flange
- 19 positions and 5 Gbps of bandwidth to support video and multi-channel audio in a single cable

### MECHANICAL

- Durability: 10,000 cycles
- Mating Force: 9.9 lbs. [44.1 N] Max.
- Unmating Force: 2.2 lbs. [9.8] Min. 8.8 lbs. [39.2] Max.

### TECHNICAL DOCUMENTS

- Meets Industry Standard High-Definition Multimedia Interface

## CONNECTORS

## Part Specifications

Product Number	PCB Mount Type	PCB Orientation	Number Of Ports	Packaging	(Dim A) Front Hold Down Legs	(Dim B) Back Hold Down Legs	Mounting Flange			(Dim E) PCB Profile Depth	Mating Finish
							Screw Size	(Dim C) CL of Mating Face to CL of Mounting Hole	(Dim D) Height (PCB- Top of Flange)		
1747981-1	SMT	R/A	1	Tape & Reel	1.8	2.2	-	-	-	11.55	A
1747981-2	SMT	R/A	1	Tape & Reel	1.5	1.5	-	-	-	11.55	A
1-1747981-1	SMT	R/A	1	Tray	1.8	2.2	M3 x 0.5	7.98	14.25	11.55	A
1-1747981-2	SMT	R/A	1	Tray	1.5	1.5	M3 x 0.5	7.98	14.25	11.55	A
1-1747981-3	SMT	R/A	1	Tray	1.8	2.2	4-40	10.08	16.05	11.55	A
1-1747981-4	SMT	R/A	1	Tray	1.8	2.2	M3 x 0.5	10.08	16.05	11.55	A
1-1747981-5	SMT	R/A	1	Tape & Reel	1.5	1.5	M3 x 0.5	7.98	14.25	11.55	A
2-1747981-3	SMT	R/A	1	Tape & Reel	1.8	2.2	M3 x 0.5	10.08	16.05	11.55	C
8-1747981-1	SMT	R/A	1	Tray	1.8	2.2	M3 x 0.5	7.98	14.25	11.55	A
1746679-1	T/H	R/A	1	Tray	1.8	2.2	M3 x 0.5	9.00	15.27	12.9	B
1903015-1	SMT	R/A	1	Tape & Reel	1.9	1.9	-	-	-	9.85	C
1903015-2	SMT	R/A	1	Tray	1.9	1.9	Ø2.65	9.00	15.40	9.85	C
1903015-3	SMT	R/A	1	Tape & Reel	1.9	1.9	M3 x 0.5	9.00	15.40	9.85	C
1903015-4	SMT	R/A	1	Tray	1.9	1.9	M3 x 0.5	9.00	15.40	9.85	C
5-1903015-1	SMT	R/A	1	Tape & Reel	1.9	1.9	-	-	-	9.85	B
5-1903015-2	SMT	R/A	1	Tray	1.9	1.9	Ø2.65	9.00	15.40	9.85	B
5-1903015-4	SMT	R/A	1	Tray	1.9	1.9	M3 x 0.5	9.00	15.40	9.85	B
1888811-1	T/H	R/A	2	Tray	2.1	2.1	M3 x 0.5	10.08	28.00	20.55	D
1888540-1	T/H	R/A	1*	Tray	1.8	2.2	M3 x 0.5	10.08	27.05	20.55	D
2007435-1	T/H	Flag	1	Tray	3.7	3.7	-	-	-	23.10	D

CL= Center Line

All dimensions in mm unless otherwise stated

Mating Finish - Gold or Gold Flash over Palladium Nickel

Mating Finish - **A** = Gold Flash over Palladium Nickel - **B** = 12µ Gold - **C** = 30µ Gold - **D** = Either A or B

\*HDMI over E-SATA

**Note:** Part Numbers are RoHS Compliant.

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HDMI is a trademark of HDMI Licensing L.L.C.  
eSATA is a trademark of Wiebe Tech L.L.C.

**PCB HEADER CONNECTORS - Product Dimensions & Part Numbers**

Right Angle Surface Mount Header, No Flange (Long Body)

**Part Numbers:**

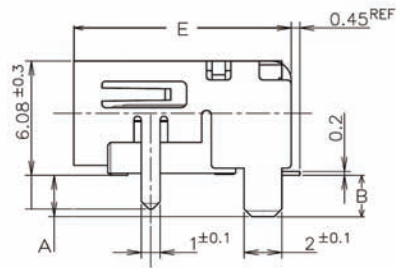
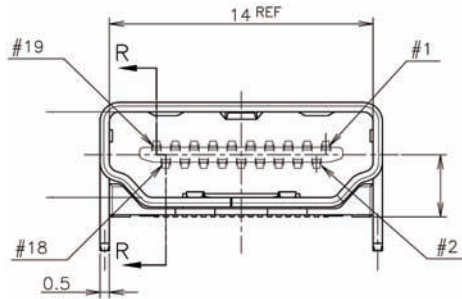
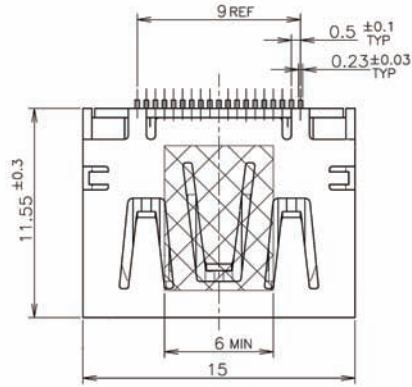
1747981-1  
1747981-2

**Product Specification:**

108-78180-1

**Qualification Test Report:**

501-5640



Right Angle Surface Mount Header with Flange (Long Body)

**Part Numbers:**

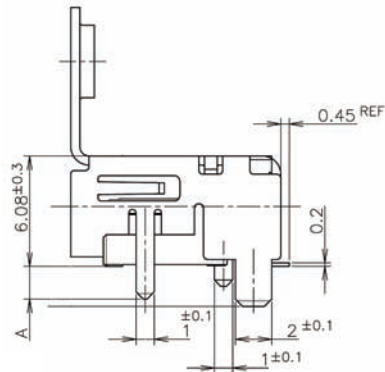
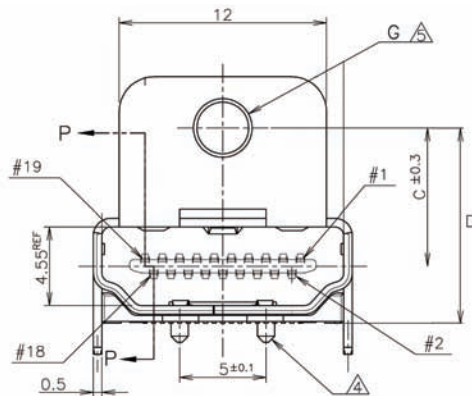
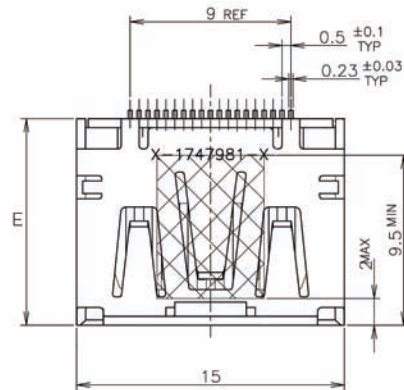
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1-1747981-2  
1-1747981-3  
1-1747981-4  
1-1747981-5  
2-1747981-3  
8-1747981-1

**Product Specification:**

108-78180-1

**Qualification Test Report:**

501-5640  
501-5640-1



**Note:** Part Numbers are RoHS Compliant.

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PCB HEADER CONNECTORS - Product Dimensions & Part Numbers

Right Angle Surface Mount Header, No Flange (Short Body)

Part Numbers:

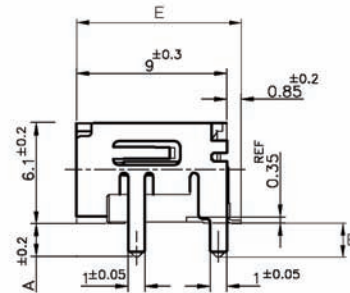
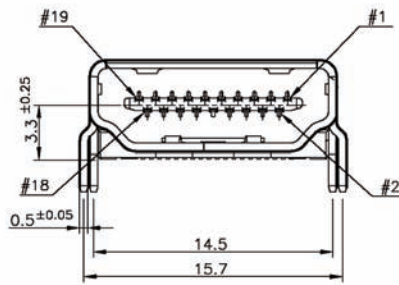
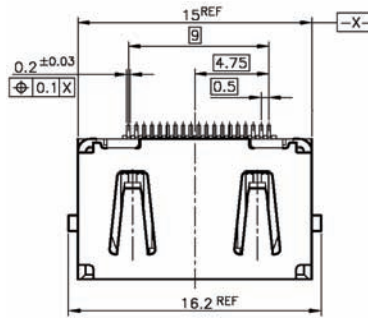
1903015-1  
5-1903015-1

Product Specification:

108-78180-2

Qualification Test Report:

501-5640-2



Right Angle Surface Mount Header with Flange (Short Body)

Part Numbers:

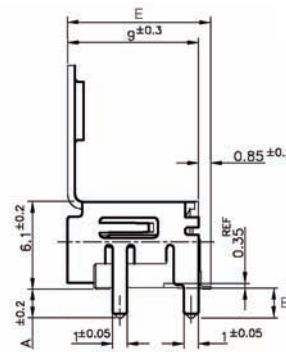
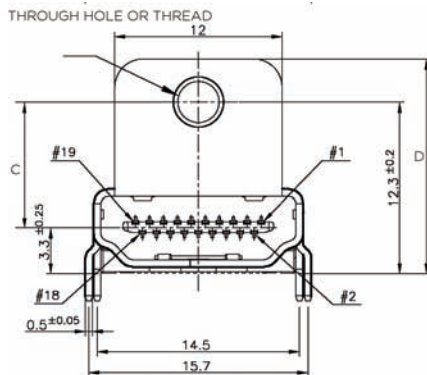
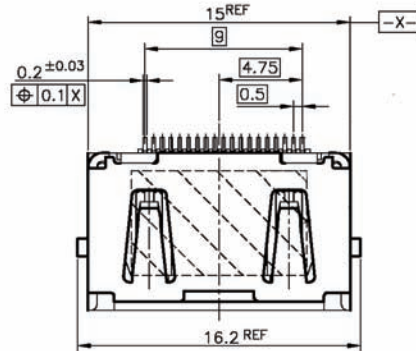
1903015-2  
1903015-3  
1903015-4  
5-1903015-2  
5-1903015-4

Product Specification:

108-78180-2

Qualification Test Report:

501-5640  
501-5640-2  
501-5841-2



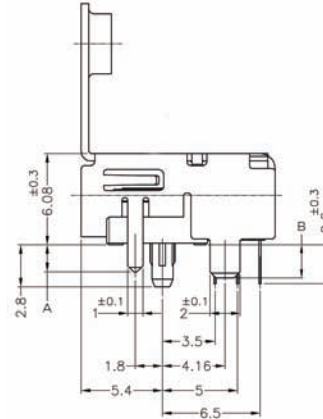
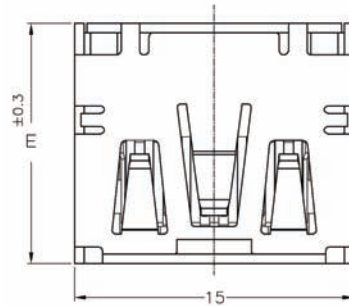
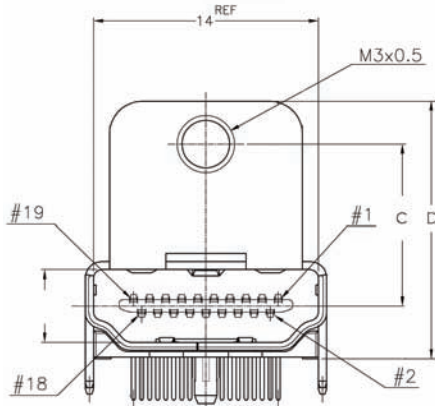
PCB HEADER CONNECTORS - Product Dimensions & Part Numbers

Right Angle Through Hole Header with Flange

Part Numbers:  
1746679-1

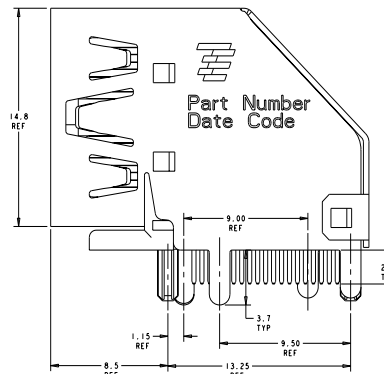
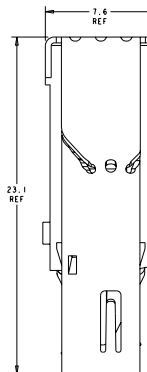
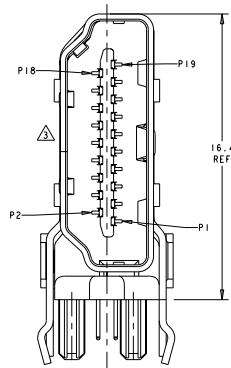
Product Specification:  
108-78180

Qualification Test Report:  
501-5640



Flag Through Hole Header

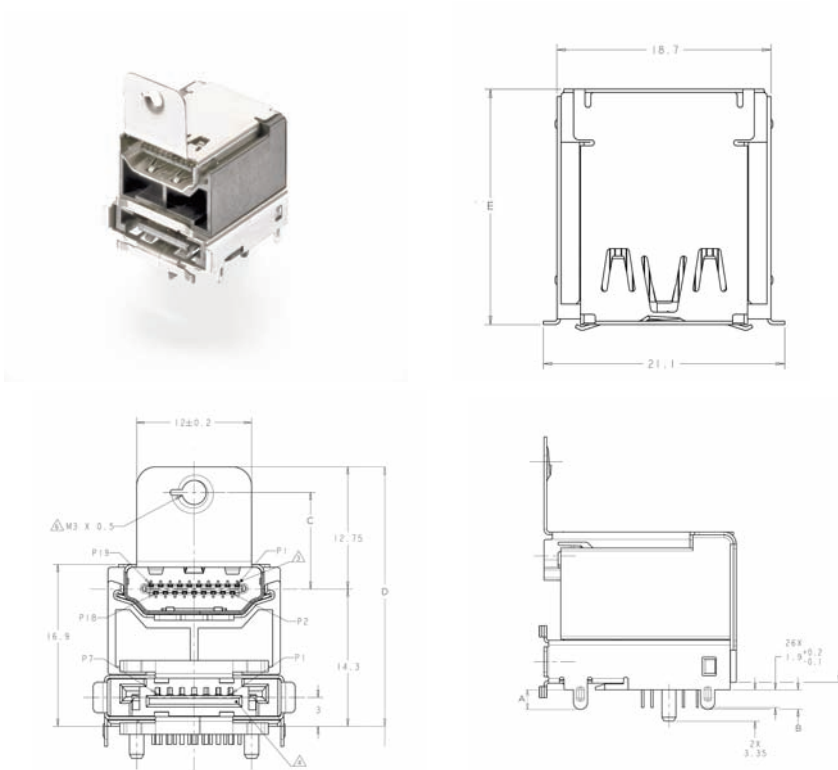
Part Numbers:  
2007435-1



Stacked Right Angle Through Hole Header

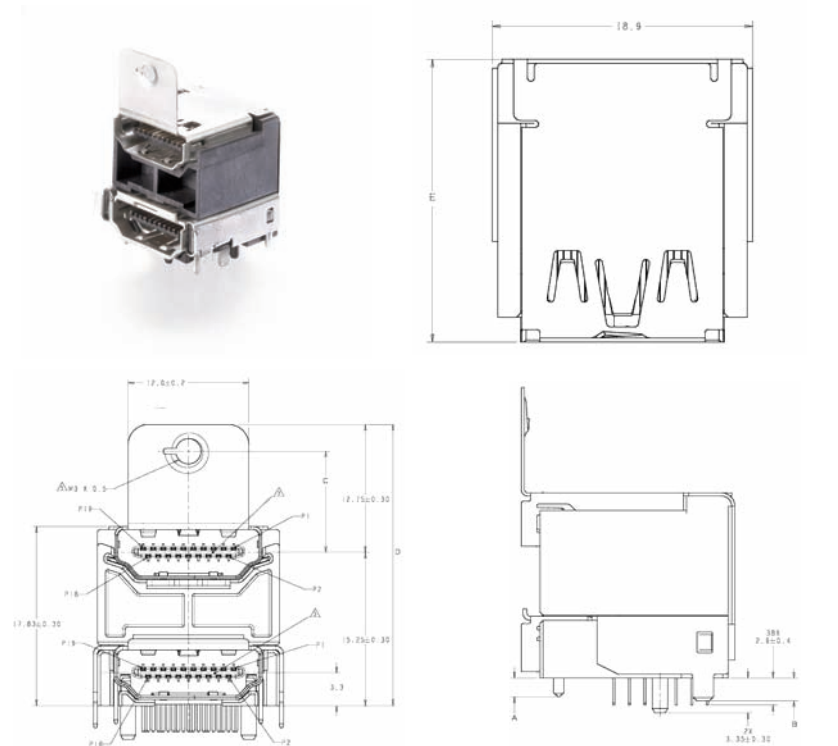
**Part Number:**  
1888540-1

**Qualification Test Report:**  
501-662



Stacked Right Angle Through Hole Incorporating HDMI Technology over eSATA Technology

**Part Number:**  
1888811-1



**Note:** Part Numbers are RoHS Compliant.

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eSATA is a trademark of Wiebe Tech L.L.C.



# Connectors & Cable Assemblies Incorporating HDMI Technology

## ELECTRICAL

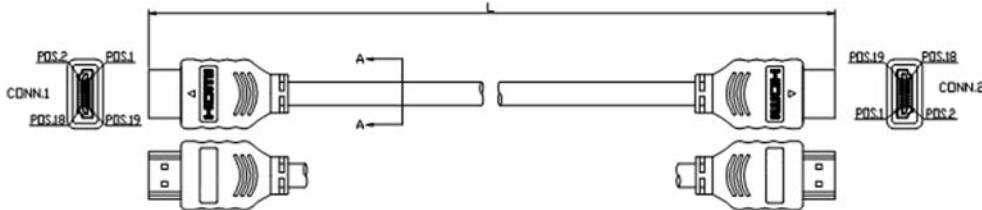
- Voltage Rating: 40 VAC maximum
- Contact Current Rating: 0.5 A minimum
- Dry Circuit Resistance -  
Contacts: 30 mΩ maximum initial  
Shell: 50mΩ maximum initial
- Dielectric Withstanding Voltage -  
Unmated: 500 VAC  
Mated: 300 VAC
- Insulation Resistance -  
Unmated: 100 mΩ maximum  
Mated: 10 mΩ minimum

## ENVIRONMENTAL

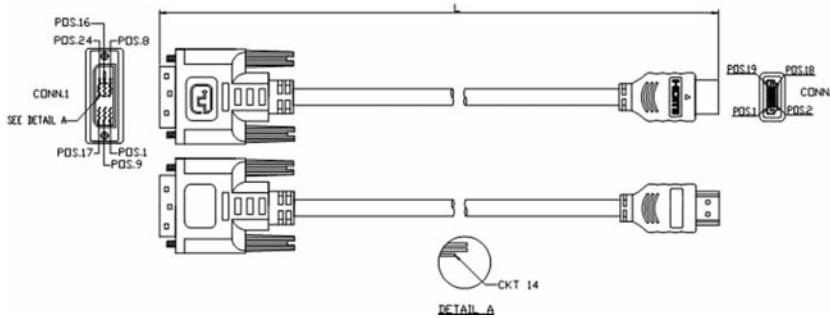
Temperature Range: -55°C to + 105

## CABLE ASSEMBLY PART NUMBERS

### Cable Assemblies Incorporating HDMI Technology to Cable Assemblies Incorporating HDMI Technology

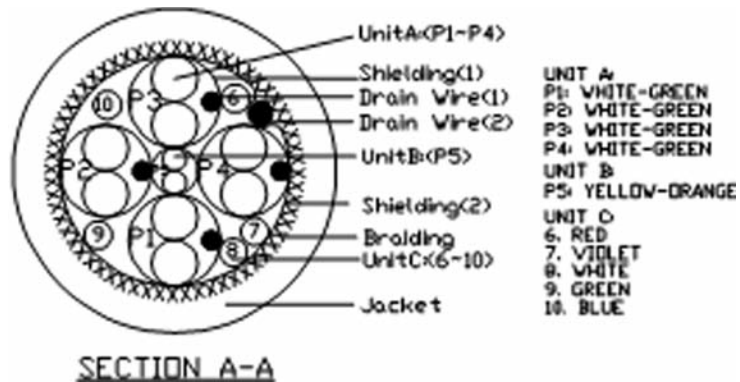


Dimension L	Part Number
1000 -20	1770019-6
750 -10	1770019-5
500 -10	1770019-4
250 -10	1770019-3
3000 -30	1770019-2
2000 -20	1770019-1



Dimension L	Part Number
1000 -20	1770020-6
750 -10	1770020-5
500 -10	1770020-4
250 -10	1770020-3
3000 -30	1770020-2
2000 -20	1770020-1

SHIELD	BRAID	SHELL	SHELL	SHELL	
C	BLUE	19	YES	19	YES
B	ORANGE	18	YES	18	YES
	YELLOW	17		17	
C	GREEN	16		16	
C	WHITE	15	YES	15	YES
C	VIOLET	14	YES	14	YES
C	RED	13		13	
	WHITE	12		12	
A	DRAIN WIRE	11	YES	11	YES
	GREEN	10	YES	10	YES
	WHITE	9		9	
A	DRAIN WIRE	8		8	
	GREEN	7	YES	7	YES
	WHITE	6	YES	6	YES
A	DRAIN WIRE	5		5	
	GREEN	4		4	
A	WHITE	3	YES	3	YES
A	DRAIN WIRE	2	YES	2	YES
	GREEN	1		1	
UNIT	WIRE COLOR	PIN	HST		HST
CABLE		CONN.1			CONN.2



Note: Part Numbers are RoHS Compliant.

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## FOR MORE INFORMATION

### Connectors:

#### Americas

Eric Himelright, Product Manager

Phone: 717-986-3750

E-mail: [elhimelright@tycoelectronics.com](mailto:elhimelright@tycoelectronics.com)

#### EMEA

Pieter Groels, Product Manager

Phone: 73-624-6494

E-mail: [p.groels@tycoelectronics.com](mailto:p.groels@tycoelectronics.com)

#### Asia

Paul Tsai, Product Manager

Phone: 755-2515-4774

E-mail: [paul.tsai@tycoelectronics.com](mailto:paul.tsai@tycoelectronics.com)

### Cable Assemblies:

#### Americas

John Montgomery, Product Manager

Phone: 717-986-3139

E-mail: [monty@tycoelectronics.com](mailto:monty@tycoelectronics.com)

#### EMEA

Rob Smeets, Product Manager

Phone: 73-624-6327

E-mail: [r.smeets@tycoelectronics.com](mailto:r.smeets@tycoelectronics.com)

#### Asia

Jenny Pi, Product Manager

Phone: 2-87682788 ext. 882

E-mail: [jenny.pi@tycoelectronics.com](mailto:jenny.pi@tycoelectronics.com)

### Technical Support

Internet: <http://www.tycoelectronics.com>  
<http://www.hdmi.org>

USA: 1-800-522-6752

Canada: 1-905-470-4425

UK: 44-141-810-8967

Japan: 81-44-844-8013

### Restriction on the use of Hazardous Substances (RoHS)

At Tyco Electronics, we're ready to support your RoHS requirements. We've assessed more than 1.5 million end items/components for RoHS compliance, and issued new part numbers where any change was required to eliminate the restricted materials. Part numbers in this catalog are identified as:

**RoHS Compliant** — Part numbers in this catalog are RoHS Compliant, unless marked otherwise. These products comply with European Union Directive 2002/95/EC as amended 1 January 2006 that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electrical and electronic products sold into the EU as of 1 July 2006.

NOTE: For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories.

NOTE: Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For latest compliance status, refer to our website referenced at right.

### Getting the Information You Need

Our comprehensive on-line RoHS Customer Support Center provides a forum to answer your questions and support your RoHS needs. A RoHS FAQ (Frequently Asked Questions) is available with links to more detailed information. You can also submit RoHS questions and receive a response within 24 hours during a normal work week.

The Support Center also provides:

- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog
- Downloadable Technical Data Customer Information Presentation
- More detailed information regarding the definitions used above
- So whatever your questions when it comes to RoHS, we've got the answers at [www.tycoelectronics.com/leadfree](http://www.tycoelectronics.com/leadfree)



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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)