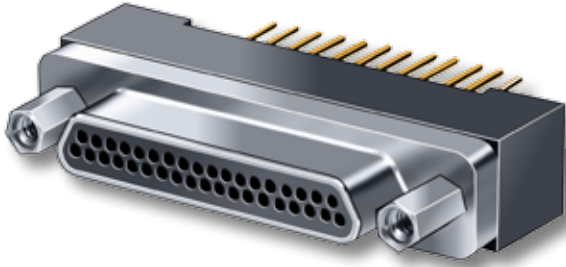




## Micro-D Printed Circuit Board Connectors Condensed Board Straight CBS .075 Inch Spacing



**Save Space On Your Circuit Board**—These Micro-D connectors feature .075 inch row spacing. The board footprint is reduced to match the size of the connector body.

**Designed for Flex Circuits**—CBS COTS connectors are available with jackscrews for flex circuit compatibility.

**Solder-Dipped**—Terminals are coated with SN63/Pb37 tin-lead solder for best solderability. Optional gold-plated terminals are available for RoHS compliance.

**High Performance**—These connectors meet the demanding requirements of MIL-DTL-83513. Suitable for Level 1 NASA reliability.

### HOW TO ORDER CBS CONDENSED BOARD STRAIGHT CONNECTORS

Series	Shell Material and Plating Finish	Insulator Material	Number of Contacts	Contact Type	Termination Style	Hardware Option	PC Tail Length	Gold-Plated Terminal Mod Code
<b>MWDM</b> Micro-D Metal Shell	Aluminum Shell	<b>L</b> LCP (Liquid Crystal Polymer)	9	<b>P</b> Pin	<b>CBS</b>  Condensed Board Straight	<b>NN</b> –No Jackpost, No Threaded Insert	.080	These connectors are solder-dipped in 63/37 tin- lead solder.  <b>To delete the solder dip and change to gold-plated terminals, add code 513</b>
	1 – Cadmium		15				<b>S</b> Socket	
	2 – Nickel		21	<b>RN</b> –Extended Jackpost for .196" (5.0) PCB, No Threaded Insert		.140		
	4 – Black Anodize		25			<b>NU</b> –Threaded Insert Only, No Jackposts	.172	
	5 – Gold		31	<b>PU</b> –Short Jackpost and Threaded Insert			.190	
	6 – Chem Film		37			Rear Panel Jackposts With Threaded Inserts	.250	
	Stainless Steel Shell	51	<b>R6U</b> – 0.125" (3.2) Panel <b>R5U</b> – 0.094" (2.4) Panel <b>R4U</b> – 0.062" (1.6) Panel <b>R3U</b> – 0.047" (1.2) Panel <b>R2U</b> – 0.031" (0.8) Panel  <b>Jackscrew Options</b> <b>M</b> – Hex Head Jackscrews <b>S</b> – Slot Head Jackscrews	Length in Inches				
	3 – Passivated	69			± .015 (0.38)			
		100						

**Sample Part Number**

MWDM 1 L - 31 P CBS NN - .110

**HARDWARE OPTIONS**  
See Pages C-16 and C-17

# Micro-D Printed Circuit Board Connectors Condensed Board Straight CBS .075 Inch Spacing



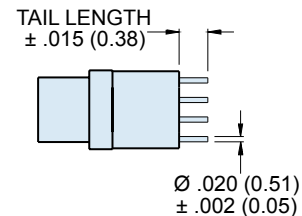
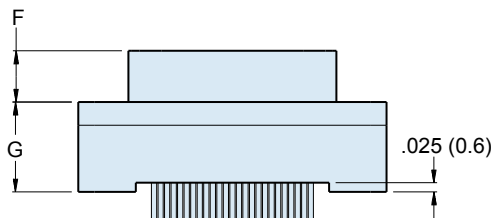
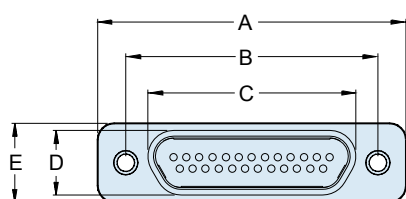
Micro-D  
PCB

## PERFORMANCE SPECIFICATIONS

Current Rating	3 AMP
DWV	600 VAC Sea level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resist.	32 Milliohms Maximum
Magnetic Permeability	2 $\mu$ Maximum
Operating Temperature	-55° C. to +150° C.
Shock, Vibration	50 g., 20g.
Mating Force	(10 Ounces) X (# of Contacts)

## MATERIALS AND FINISHES

Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold Over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Resin Hysol EE4215



## MICRO-D CBS BOARD MOUNT CONNECTOR DIMENSIONS

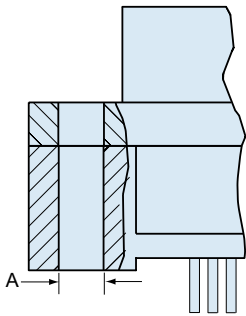
Layout	A Max.		B		C Max.		D Max.		E Max.		F		G Max.	
	In.	mm.	In. ±.005	mm. ±0.13	In.	mm.	In.	mm.	In.	mm.	In. ±.003	mm. ±0.08	In.	mm.
9P	.785	19.94	.565	14.35	.333	8.46	.184	4.67	.310	7.87	.183	4.65	.355	9.02
9S	.785	19.94	.565	14.35	.400	10.16	.250	6.35	.310	7.87	.195	4.95	.355	9.02
15P	.935	23.75	.715	18.16	.483	12.27	.184	4.67	.310	7.87	.183	4.65	.355	9.02
15S	.935	23.75	.715	18.16	.551	14.00	.250	6.35	.310	7.87	.195	4.95	.355	9.02
21P	1.085	27.56	.865	21.97	.633	16.08	.184	4.67	.310	7.87	.183	4.65	.355	9.02
21S	1.085	27.56	.865	21.97	.701	17.81	.250	6.35	.310	7.87	.195	4.95	.355	9.02
25P	1.185	30.01	.965	24.51	.733	18.62	.184	4.67	.310	7.87	.183	4.65	.355	9.02
25S	1.185	30.01	.965	24.51	.801	20.35	.250	6.35	.310	7.87	.195	4.95	.355	9.02
31P	1.335	33.91	1.115	28.32	.883	22.43	.184	4.67	.310	7.87	.183	4.65	.355	9.02
31S	1.335	33.91	1.115	28.32	.951	24.16	.250	6.35	.310	7.87	.195	4.95	.355	9.02
37P	1.485	37.72	1.265	32.13	1.033	26.24	.184	4.67	.310	7.87	.183	4.65	.355	9.02
37S	1.485	37.72	1.265	32.13	1.101	27.96	.250	6.35	.310	7.87	.195	4.95	.355	9.02
51P	1.435	36.45	1.215	30.86	.983	24.97	.228	5.79	.400	10.16	.183	4.65	.355	9.02
51S	1.435	36.45	1.215	30.86	1.051	26.70	.296	7.52	.400	10.16	.195	4.95	.355	9.02
69P	1.735	44.07	1.515	38.48	1.284	32.61	.224	5.69	.400	10.16	.183	4.65	.355	9.02
69S	1.735	44.07	1.515	38.48	1.350	34.29	.293	7.44	.400	10.16	.195	4.95	.355	9.02
100P	2.170	55.12	1.800	45.72	1.383	35.13	.270	6.86	.510	12.95	.183	4.65	.430	10.92
100S	2.170	55.12	1.800	45.72	1.451	36.86	.333	8.46	.510	12.95	.195	4.95	.430	10.92



# Micro-D Printed Circuit Board Connectors Condensed Board Straight CBS .075 Inch Spacing

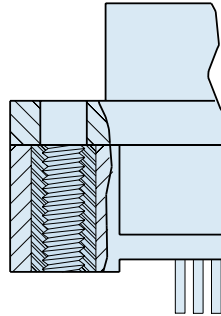
## MICRO-D CBS BOARD MOUNT CONNECTOR HARDWARE OPTIONS

C



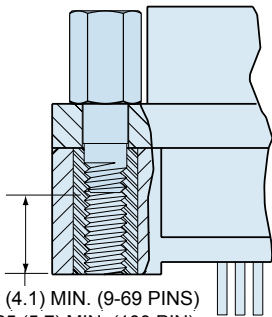
A DIAMETER  
9-69 CONTACTS  
.096/.088 (2.44/2.24)  
100 CONTACTS  
.150/.145 (3.81/3.68)

**NN Style**  
Thru-Hole, No Hardware



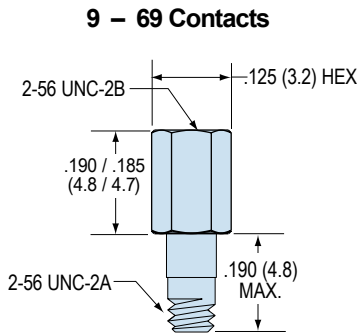
9-69 CONTACTS  
NO. 2-56 UNC-2B  
100 CONTACTS  
NO. 4-40 UNC-2B

**NU Style**  
Threaded Insert

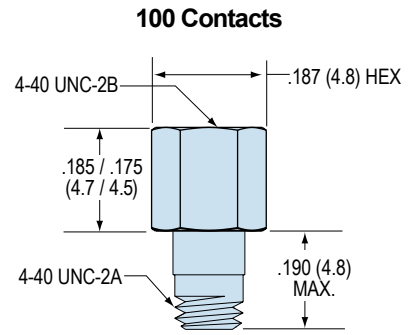


.160 (4.1) MIN. (9-69 PINS)  
.225 (5.7) MIN. (100 PIN)

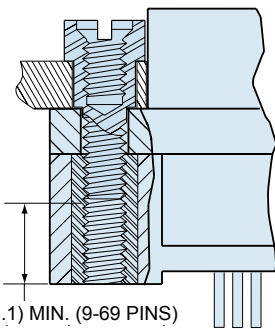
**PU Style**  
Jackpost with Threaded Insert



Kit Part Number **500-063-1**  
Kit Consists of Two Jackposts

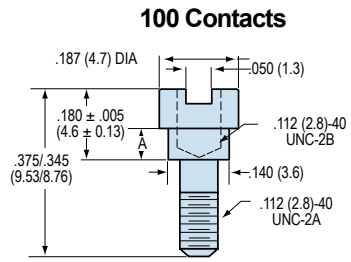
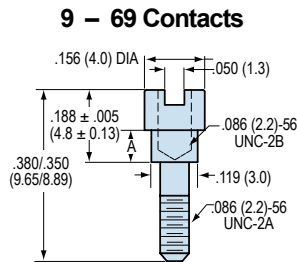


Kit Part Number **500-063-2**  
Kit Consists of Two Jackposts



.160 (4.1) MIN. (9-69 PINS)  
.225 (5.7) MIN. (100 PIN)

**RU Style**  
Jackpost For Rear Panel  
Mounting, with Threaded Insert



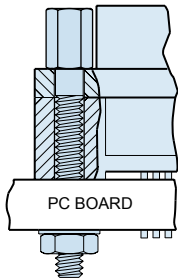
Hardware Option	Panel Thickness	Part Number	A ± .003 (0.08)	Hardware Option	Panel Thickness	Part Number	A ± .003 (0.08)
R2U	1/32 (0.8)	177-505-A-2-2	.024 (0.6)	R2U	1/32 (0.8)	177-505-D-4-2	.024 (0.6)
R3U	3/64 (1.2)	177-505-A-2-3	.041 (1.0)	R3U	3/64 (1.2)	177-505-D-4-3	.041 (1.0)
R4U	1/16 (1.6)	177-505-A-2-4	.055 (1.4)	R4U	1/16 (1.6)	177-505-D-4-4	.055 (1.4)
R5U	3/32 (2.4)	177-505-A-2-5	.086 (2.2)	R5U	3/32 (2.4)	177-505-D-4-5	.086 (2.2)
R6U	1/8 (3.2)	177-505-A-2-6	.118 (3.0)	R6U	1/8 (3.2)	177-505-D-4-6	.118 (3.0)

**Micro-D Printed Circuit Board Connectors  
Condensed Board  
Straight CBS .075 Inch Spacing**



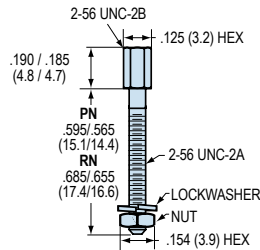
Micro-D  
PCB

**MICRO-D CBS BOARD MOUNT CONNECTOR HARDWARE OPTIONS**



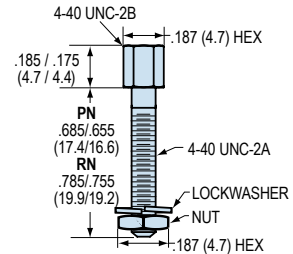
**PN Style** for .062" PCB  
**RN Style** for .196" PCB  
Jackpost Kit

**9 – 69 Contacts**

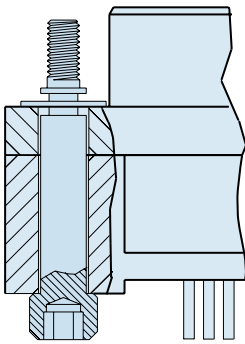


PN Kit Part Number **500-069-2-6**  
RN Kit Part Number **500-069-2-7**  
Kit Consists of 2 Jackposts, 2 Nuts, 2 Washers

**100 Contacts**

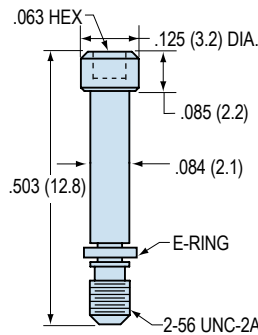


PN Kit Part Number **500-069-4-7**  
RN Kit Part Number **500-069-4-8**  
Kit Consists of 2 Jackposts, 2 Nuts, 2 Washers



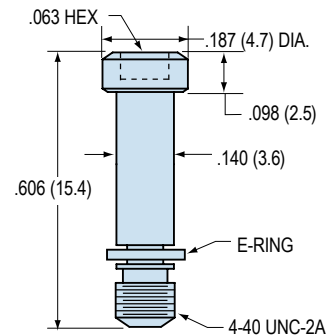
**M Style**  
Hex Head Jackscrew with  
E-Ring

**9 – 69 Contacts**

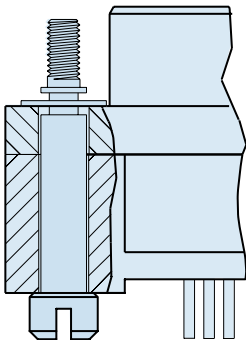


Kit Part Number **500-080-2**  
Kit Consists of 2 Jackscrews and 2 E-Rings

**100 Contacts**

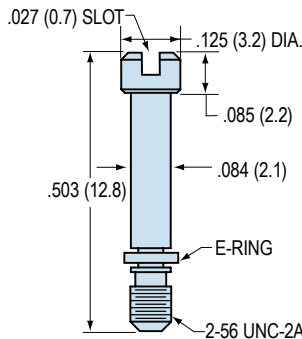


Kit Part Number **500-080-4**  
Kit Consists of 2 Jackscrews and 2 E-Rings



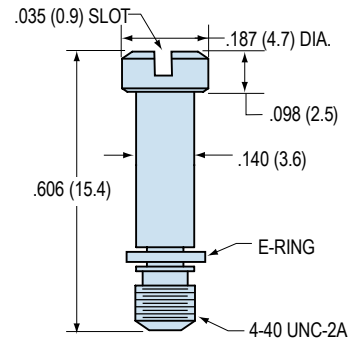
**S Style**  
Slot Head Jackscrew with  
E-Ring

**9 – 69 Contacts**



Kit Part Number **500-081-2**  
Kit Consists of 2 Jackscrews and 2 E-Rings

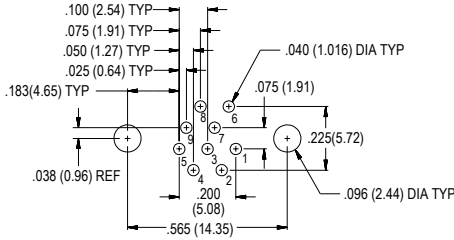
**100 Contacts**



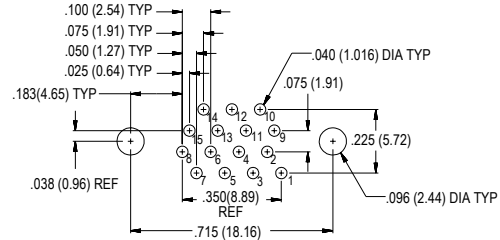
Kit Part Number **500-081-4**  
Kit Consists of 2 Jackscrews and 2 E-Rings

Patterns shown are for connector mounting side of PC board.

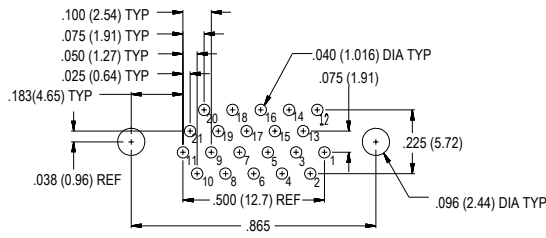
## MICRO-D CBS BOARD MOUNT CONNECTOR PCB LAYOUTS – PIN CONNECTORS



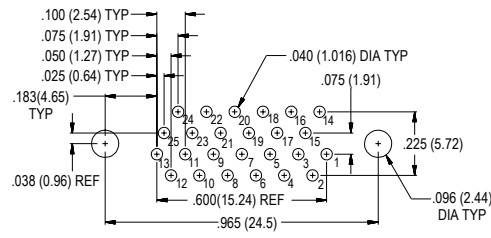
9 PIN MWDM-9PCBS



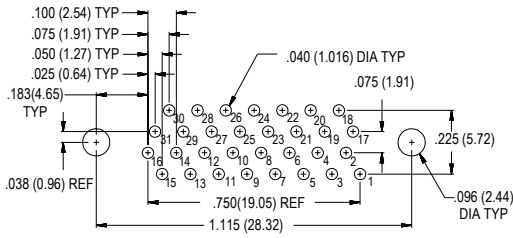
15 PIN MWDM-15PCBS



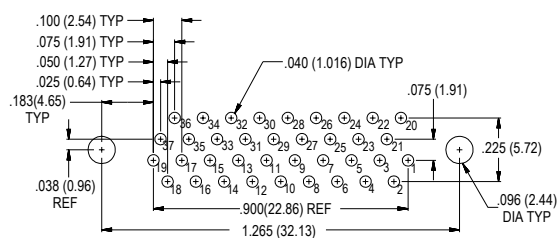
21 PIN MWDM-21PCBS



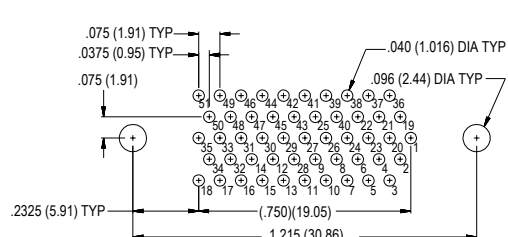
25 PIN MWDM-25PCBS



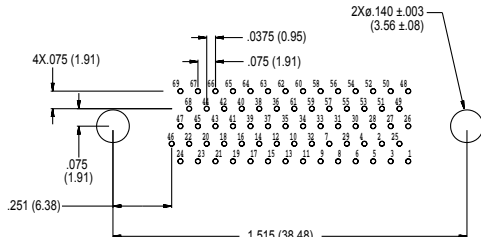
31 PIN MWDM-31PCBS



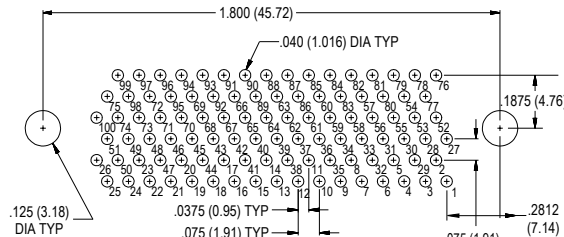
37 PIN MWDM-37PCBS



51 PIN MWDM-51PCBS



69 PIN MWDM-69PCBS



100 PIN MWDM-100PCBS

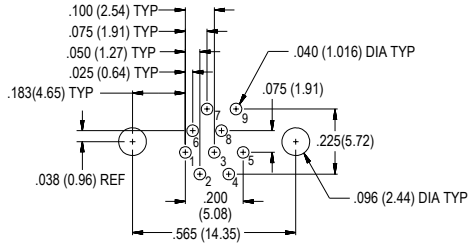
# Micro-D Printed Circuit Board Connectors Condensed Board Straight CBS .075 Inch Spacing



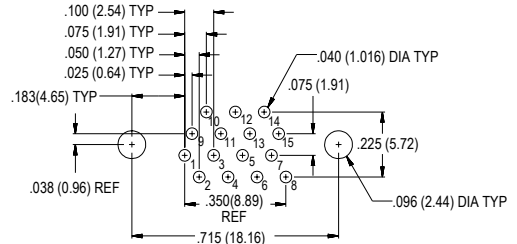
Micro-D  
PCB

Patterns shown are for connector mounting side of PC board.

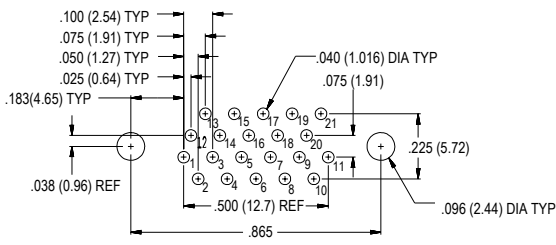
## MICRO-D CBS BOARD MOUNT CONNECTOR PCB LAYOUTS – SOCKET CONNECTORS



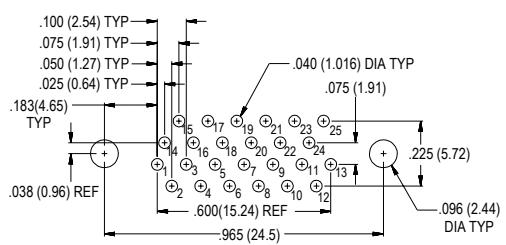
9 Socket MWDM-9SCBS



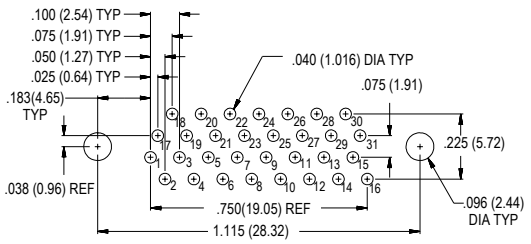
15 Socket MWDM-15SCBS



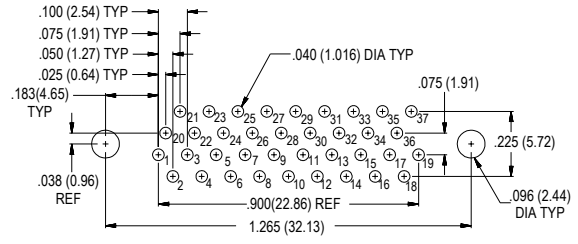
21 Socket MWDM-21SCBS



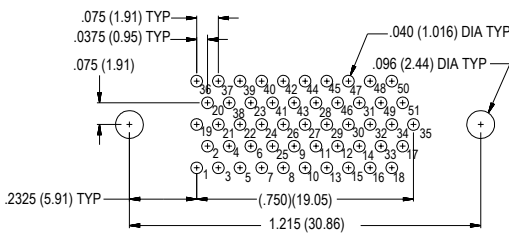
25 Socket MWDM-25SCBS



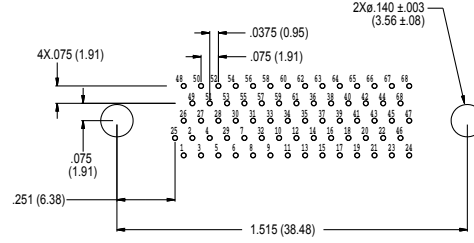
31 Socket MWDM-31SCBS



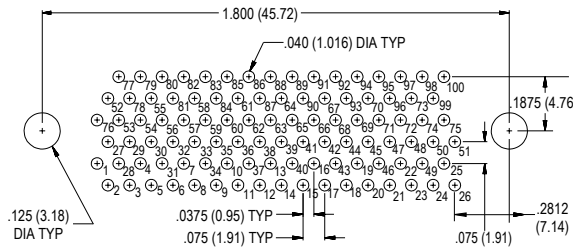
37 Socket MWDM-37SCBS



51 Socket MWDM-51SCBS



69 Socket MWDM-69SCBS



100 Socket MWDM-100SCBS



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

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.