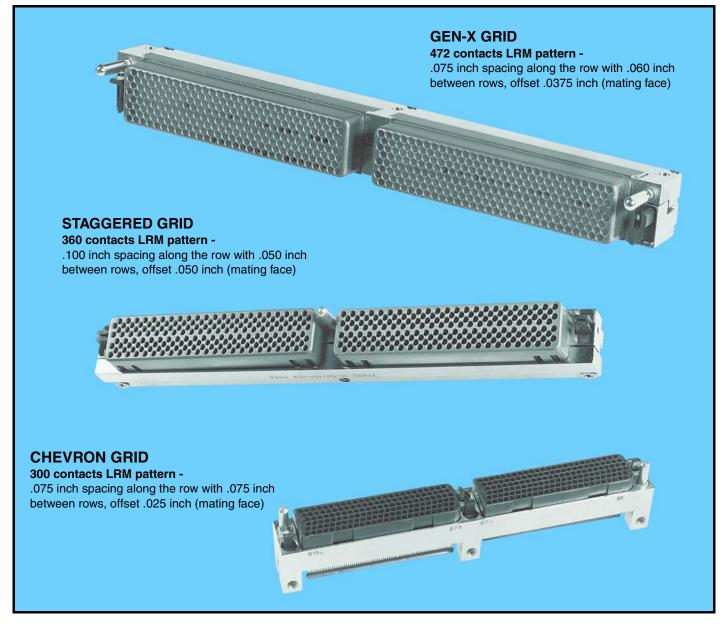
# Amphenol<sup>®</sup> LRM Surface Mount Connectors Designer's Guide

L-2081-2

High Density Interconnect System with MIL-C-55302 type Bristle<sup>®</sup> Brush<sup>®</sup> contacts available in three patterns.



This document contains the most common LRM drawings for designer's reference only. Contact Amphenol for verification of the latest drawing versions.



This publication provides an engineering drawing package for use as a designer's guide to LRM surface mount connectors.

**CAUTION -** It is important that the designer check with Amphenol LRM product representatives for the most current drawings, as these drawings included here may become out-dated. The drawings are to be used as reference only, and all final product ordering information should be verified with Amphenol.

Please contact Amphenol Aerospace at the address listed below:

Amphenol Corporation Amphenol Aerospace 40 – 60 Delaware Avenue Sidney, New York 13838-1395 Telephone: 607-563-5342 (New Products Development Group) Fax: 607-563-5157

Publication L-2104, "Amphenol<sup>®</sup> LRM Surface Mount Connectors Reference Guide", gives general product data on LRM surface mount connectors, and should be used in conjunction with this publication for additional information.

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TAB 6 (Web Pg. 48)         Chevron Pattern LRM Connectors Insert Arrangements, Ordering Procedure

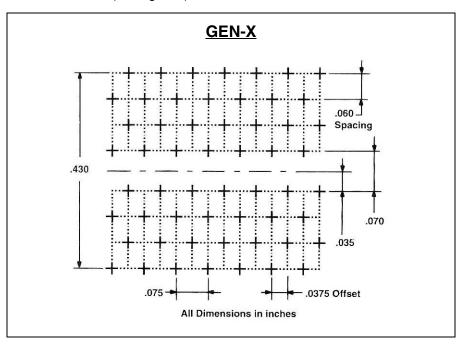
# **GEN-X Grid Pattern (472 contacts)**

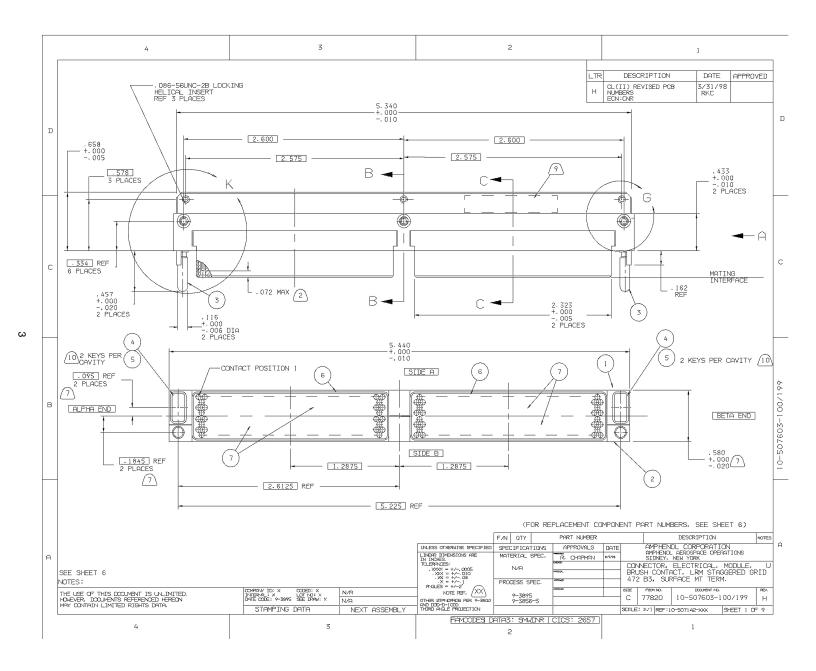
Drawing Package for Double Bay Module Connectors

Including how to order part numbers.

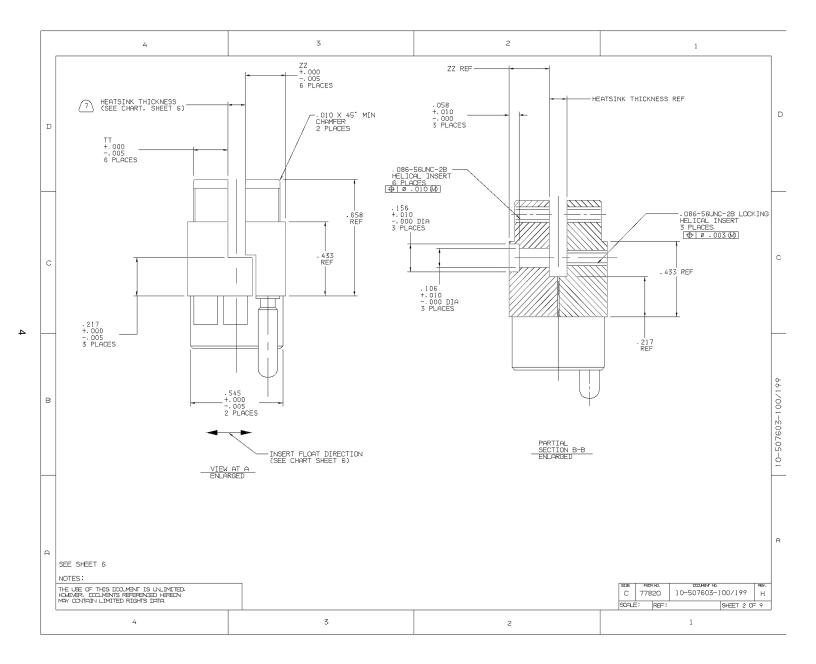
The LRM GEN-X 472 contact pattern allows for surface mount leads on a .035 inch center line.

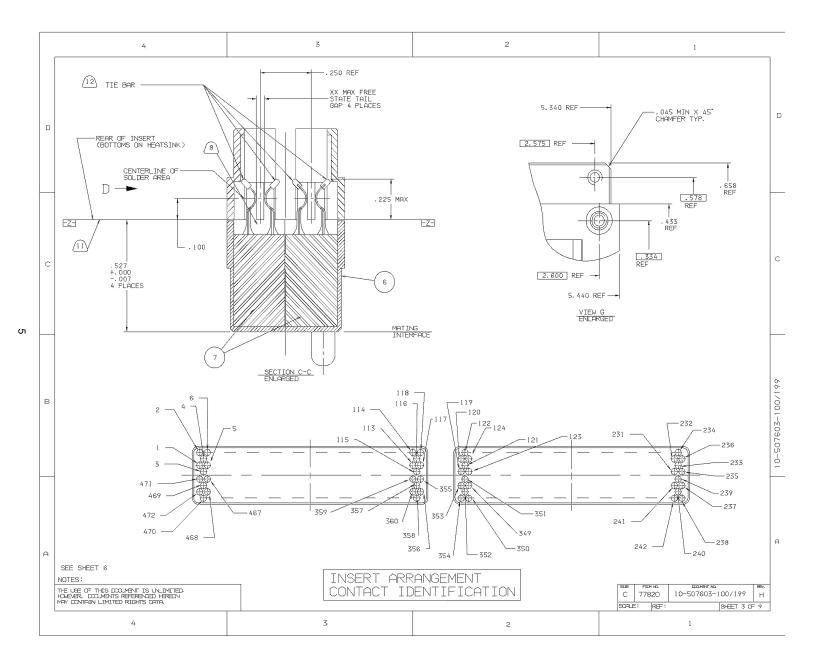
The following diagram shows the contact pattern of the GEN-X grid LRM Connector, .075 inch spacing along the row with .060 inch between rows, offset .0375 inch (mating face).

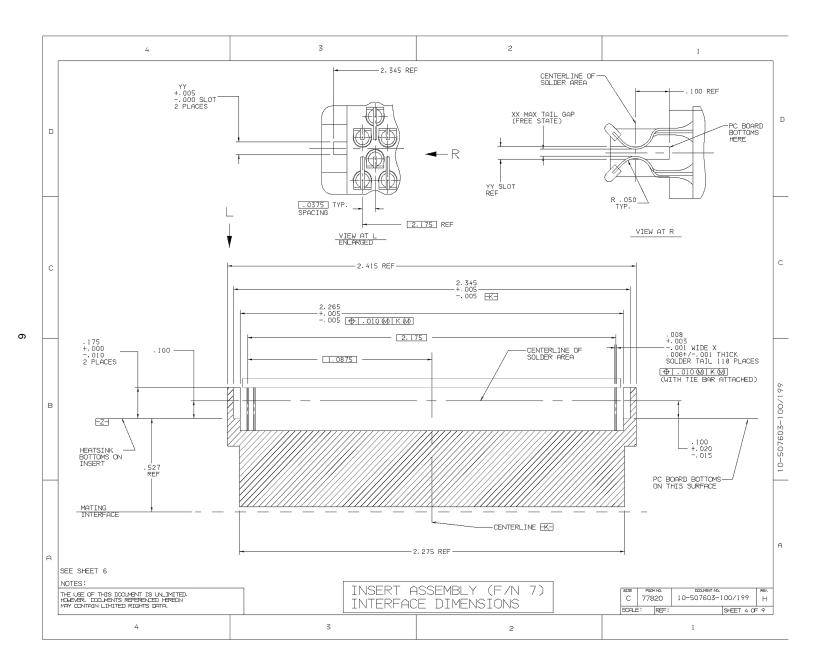


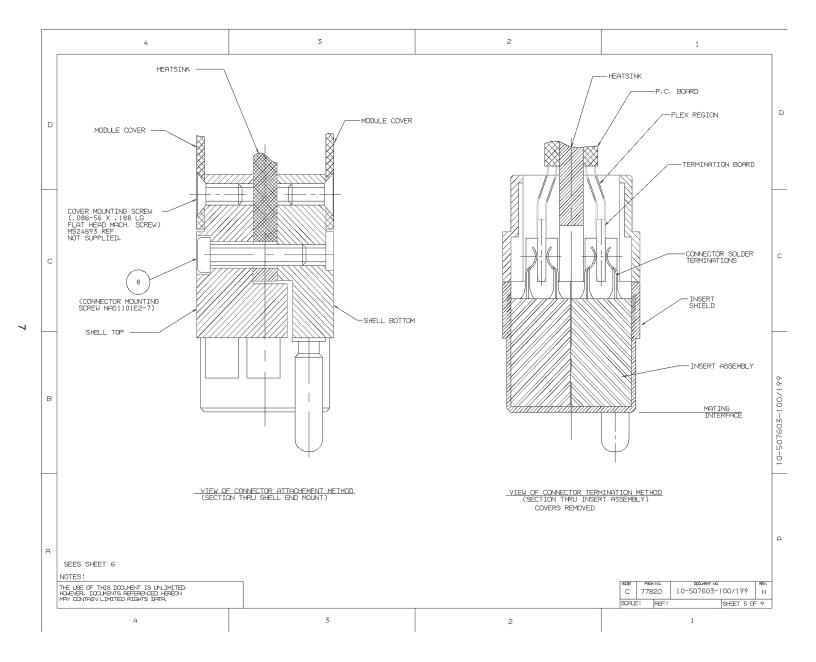


Downloaded from Elcodis.com electronic components distributor



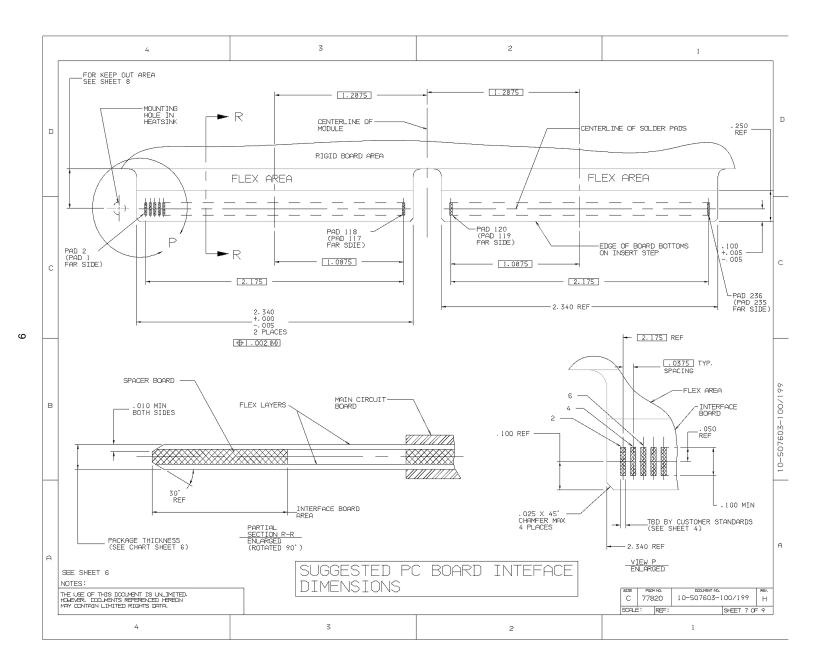


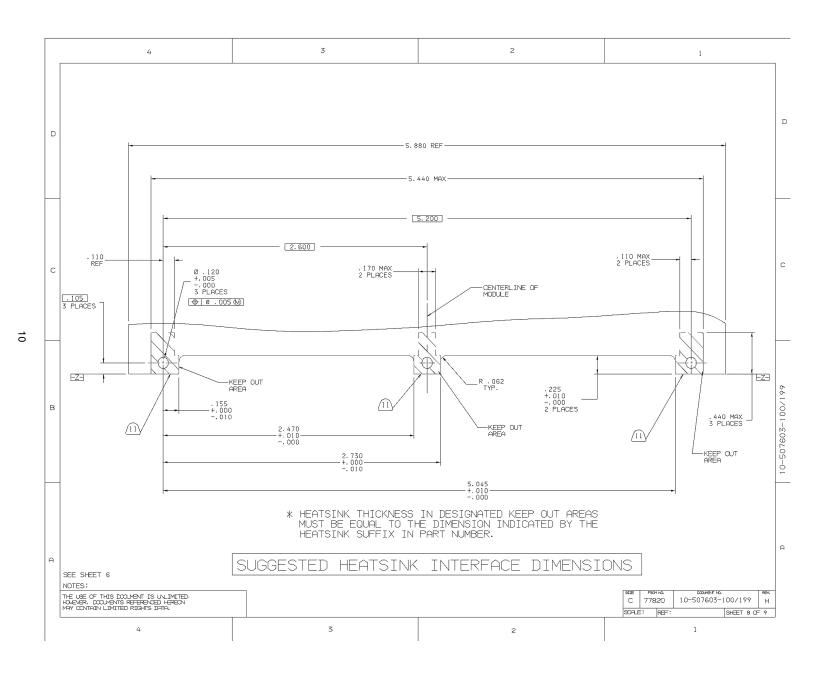


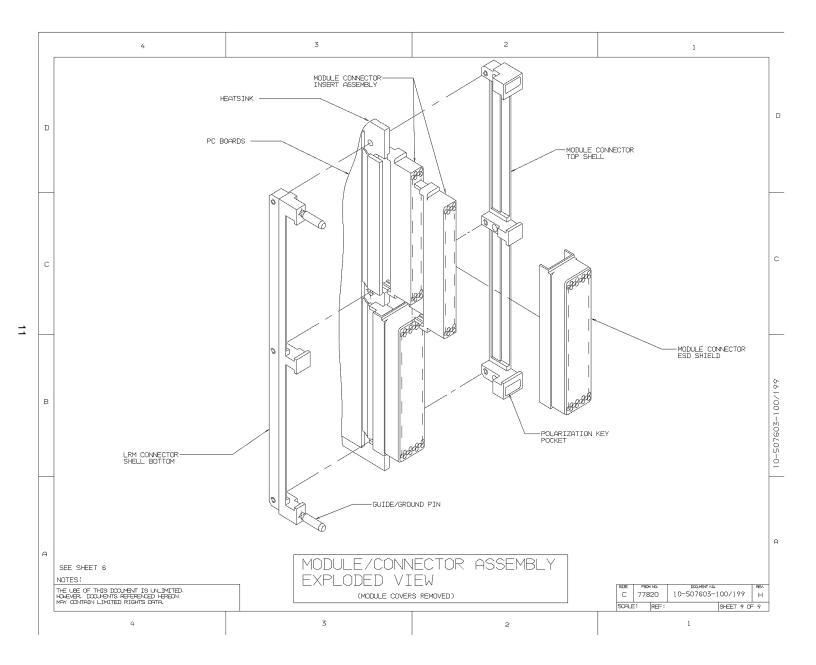


		4			3 2									1				
		CONNECTOR PA NUMBER (TO C P/N SEE SUFF	OMPLETE	)	PAF	ELL ASSEMBLY RT NUMBER (TO COMPLETE E SUFFIX CHART)	INSERT ASSEME PART NUMBER ( SEE SUFFIX CH	TO COMPLET	Έ			EMENT COMPO	NENT PAR					
	1	0-507603-	-1()(	)	10-507972-11() F/N 1 10-507985-1() F/N 7 1 1 SEE COLUMN S 10-507972-12() F/N 2 2 1 SEE COLUMN S								SHELL TOP SHELL BOT GUIDE PIN	ГТОМ				
D		K THICKNESS - INATION STYLE				THICKNESS	TERMINATION- STYLE			4 5 6	2	10-507929-3 10-507903-3	RETAININ POLARIZA INSERT SH	TION KEY	D			
			F	°ART	NUMBE	R SUFFIX CHART				7	4	SEE COLUMN	INSERT AS MOUNTING					
	SUFFIX	K THICKNESS DESCRIPTION	ZZ	TT	SUFFIX	ION STYLE/BOARD THICKNESS RA	××	YY		8	3	10-507931-2	REPLACEME	ENT KEY KIT EACH OF F/N 5 &	6)			
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ł	4	N/A	N/A	N/A	4	TBD	TBD											
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ł	6	.070+/003	. 2535	. 2195	6	TBD	TBD											
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ľ	Â				Â													
в		THICKNESS .100+/003 .075+/003 .062+/003 N/A .050+/003 .070+/003 TBD ATED DIMENSION E APPROPIATE H		+/0 N/A +/0 +/0	28 28 28 28 28 	SSEMBLED	12. TIE BARS N	UST BE REM	YOVED.						10-507603-100/199			
	6. FOR A	PPROPIATE HEAT	SINK THIC	KNESS, SE	E COLUMN.		11. INDICATED	SURFACE OF	INSERTS BO	TTOM ON	1							
						3 SOLDER DIPPED. AWING 10-507702-100/199.	INDICATED EDGE OF HEATSINK. 10. A TOTAL OF 4 KEYS AND 2 RETAINING RINGS ARE REQUIRED TO COMPLETE THE ASSEMBLY. RETAINING RINGS ARE NOT REUSABLE AND MUST BE REPLACED WHEN REKEYING CONNECTOR.											
	BE SH	ARE SHOWN ASS IPPED UNASSEMB ATED DIMENSION	LED (SEE	SHEET 9).			9. BLACK INK STAMP "AMPHENOL" 77820 PART NUMBER AND DATE CODE ON INDICATED SURFACES PER 9-3856-5. DATE CODE PER 9-3895. CHARACTERS TO BE .0624/020 HIGH. ADDITIONAL INFORMATION											
A	1. FOR S					AYOUT SEE SHEET 7.	MAYBE REQUE 8. REAR SURFAC CONTACTS AF	E OF INSER	IRCHASE ORDEF RTS ARE SEALE IVABLE:		RUSH	CONTACT AREA	ONLY					
	HOWEVER, DO	THIS DOOLMENT IS DOLMENTS REFERENCE N LIMITED RIGHTS I	D HEREON										820 10-	жалнент №. -507603-100/199 SHEET 6 CF	H H			
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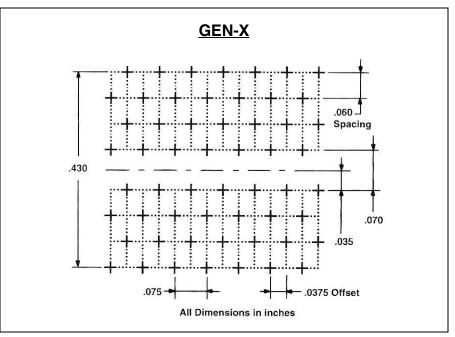
## **GEN-X Grid Pattern (472 contacts)**

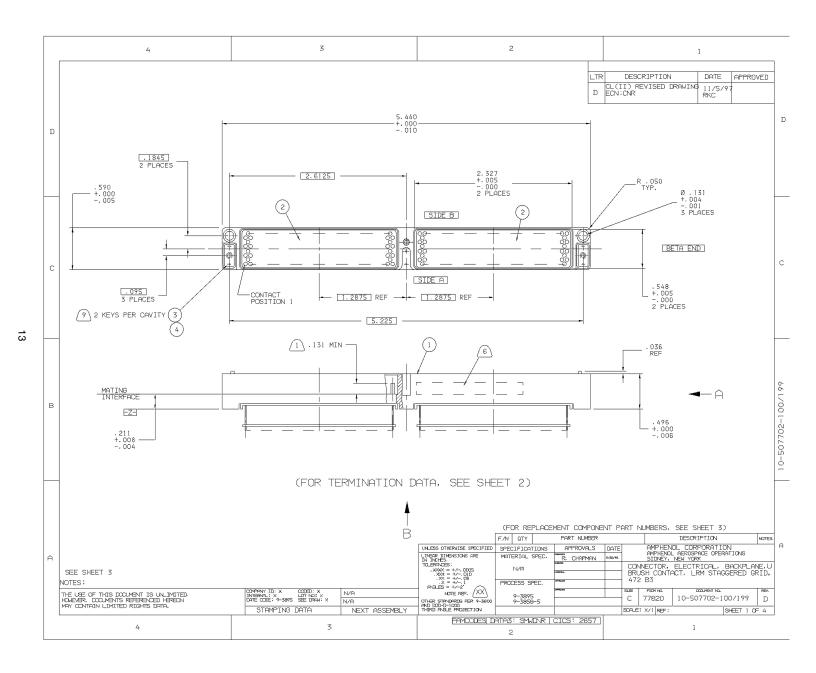
Drawing Package for Double Bay Backplane Connectors

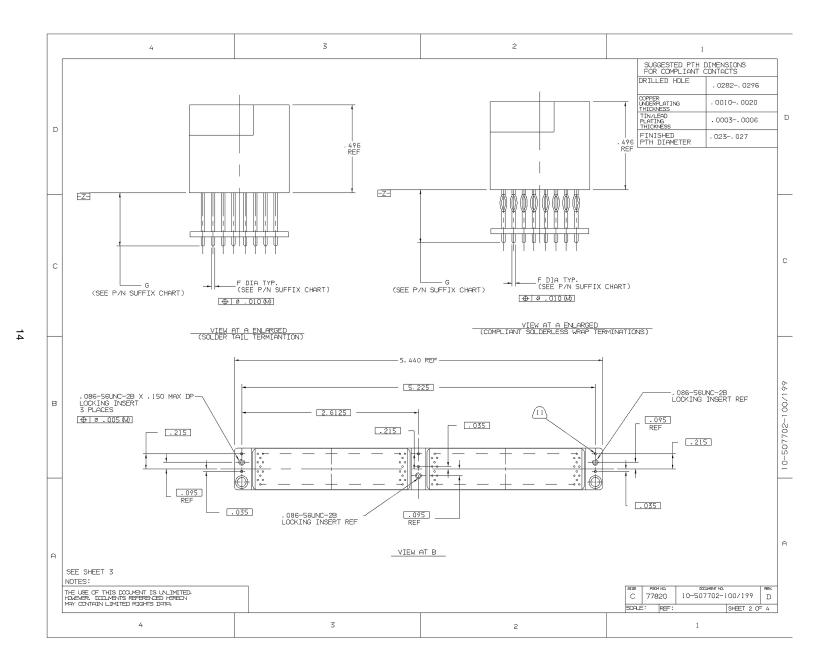
Including how to order part numbers.

The LRM GEN-X 472 contact pattern allows for surface mount leads on a .035 inch center line.

The following diagram shows the contact pattern of the GEN-X grid LRM Connector, .075 inch spacing along the row with .060 inch between rows, offset .0375 inch (mating face).

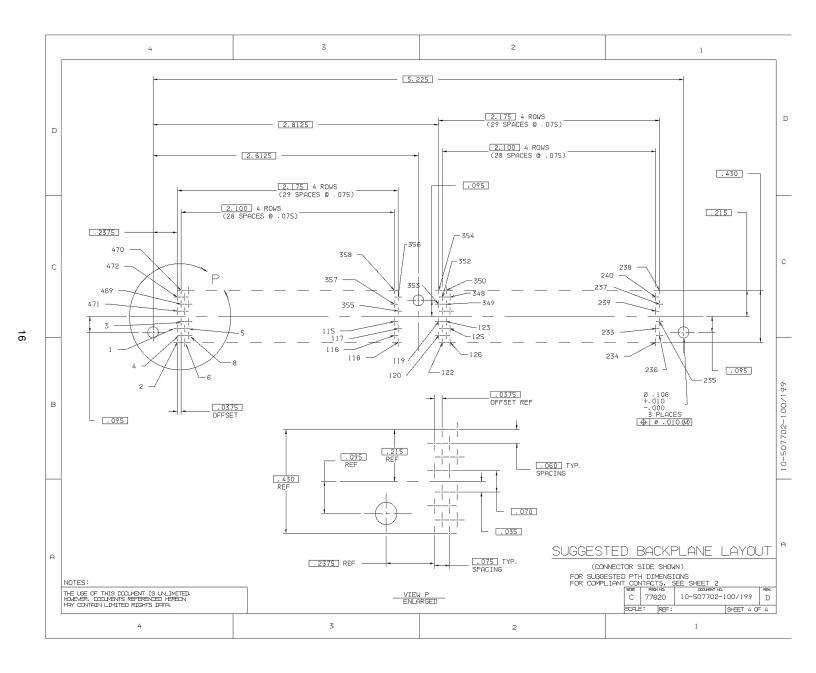






			4		3		2					1					
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		10-50	07702-1()()					1	1	10-507988	-11	SHELL ASSEMBLY					
				1	0-507989-1()()	INSERT ASSEMBLY											
		TERMINC	ATION STYLE	TERM	INATION STYLE /			3	4	10-507903		POLARIZATION KEY	2	] D			
	nl		TION STICKOUT		INATION STICKOUT			4	2	10-507929	2-3	RETAINING RING	2				
	-			10001				5	6	10-507912		COMPLIANT PINS	2				
			PART NUME	BER S	UFFIX CHART			6	AR	10-507931	-1	REPLACEMENT KEY KIT (100 PCS EACH F/N 3 & 4)	10				
		TERMINA	TION STYLE	TERMINE	TION STICKOUT			7	AR	10-507818	-12	COMPLIANT CONTACT (NO WRAP)	10	1			
		SUFFIX	DESCRIPTION (DIM "F")	SUFFIX	DESCRIPTION (DIM "G")			8	AR	10-507818	-22	COMPLIANT CONTACT (1 WRAP)	10	1			
		1	.021+/.002 DIA PCB TAIL	1	.150+/020 (PCB)			9	AR	10-507818	-32	COMPLIANT CONTACT (2 WRAP)	10	1			
		2	.016+/002 DIA PCB TAIL	2	.200+/020 (PCB)			10	ÂR	10-507818	-42	COMPLIANT CONTACT (3 WRAP)	10	-			
		3	.012+/002 DIA POB TAIL	3	.250+/020 (PCB)					1				1			
		4	N/A	4	.300+/020 (PCB)												
		5	COMPLIANT	5	.350+/020 (PCB)												
		6	TBD	6	. 400+/ 020 (PCB)												
		7		7	.185+/020 (PCB)	.185+/020 (PCB)											
	_ [	8		8 .450+/020 (PCB)										С			
	다	9	9 . 500+/020 (PCB)														
		0	NONE N/A	V/A A NA													
		A B NA															
C .157+/~.020 (CCMPLT., NO WRAP)																	
				D	.217+/020 (COMPLT., 1 WRAP)												
				E	.317+/020 (COMPLT., 2 WRAP)												
_	_			F	.417+/020 (COMPLT., 3 WRAP)												
	_	REMOV CONTA 4. CONTA PCB T	ICONTACTS WITH PCB TAIL WALE. THE REAR OF THE IN ICTS ARE REMOVABLE FROM T ICT TERMINATION FINISH IS 60/	ISERT IS : HE FRONT 40 TIN/LI	SEALED, COMPLAINT AD SOLDER DIPPED.	10- 9.	REF HOLES (6 PLACES) ARE USING INCLUDED DOUBLE BUI IS REQUIRED TRANSFER THE AND SPECIFY A FINISHED HO INDICATED ITEMS ARE REPA: A TOTAL OF 4 KEYS AND 2 RE COMPLETE THE ASSEMBLY. RE AND MUST BE REPLACED WHEN	DED CO 6 HOU DLE S IR OR ETAINI TAININ	OMPLI LE LO IZE O REPL ING F	IANT PINS F DCATIONS TO DF .040+/ .ACEMENT CO RINGS ARE R INGS ARE NO	VN 5. VTHE 003 D MPONE EQUIR	WHEN GROUNDING BACKPLANE LAYOUT JIA. INT PART NUMBERS. RED TO		10-507702-100/199			
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		2. INDIC	ATED PARTS ARE SHOWN ASS IPPED UNASSEMBLED,	EMBLED.	THESE PARTS WILL		IS WITHIN .020 INCH OF TAD	IL ENI	D.					Â			
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		INVEVER, D	" THIS DOCUMENT IS UNLIMITED. DOCUMENTS REFERENCED HEREON IN LIMITED RIGHTS DATA.									C 77820 10-507702-100/199	-				
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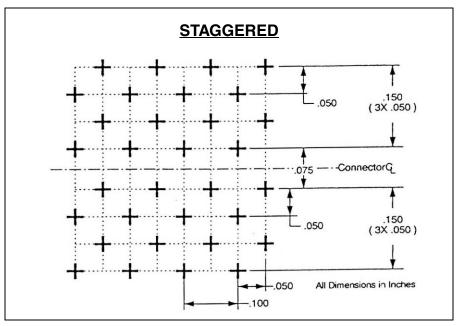
### **Staggered Grid Pattern (Digital)**

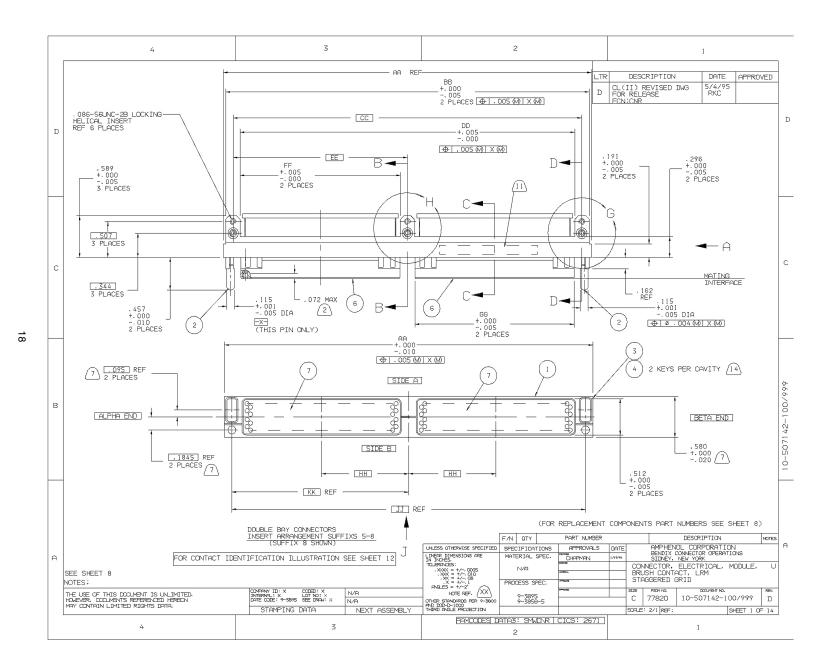
Drawing Package for Single, Double and 3-Bay Module Connectors

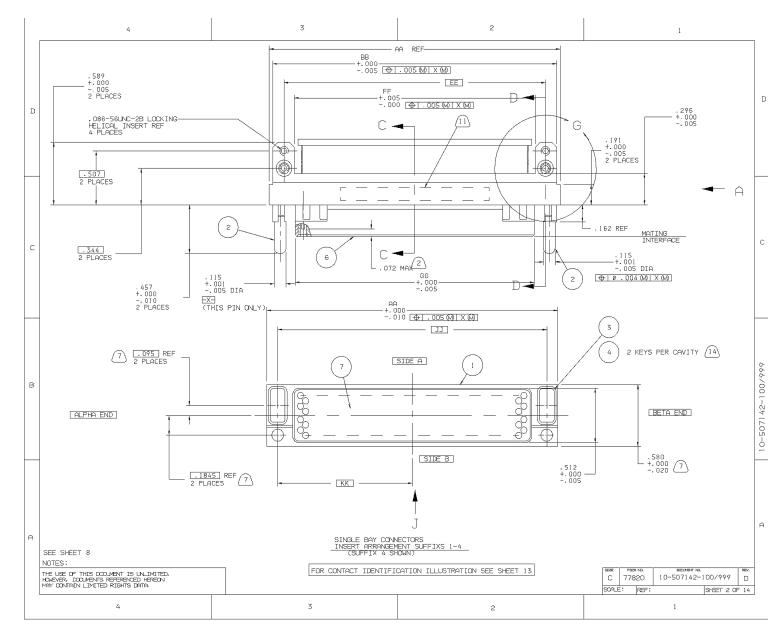
Including how to order part numbers.

The LRM Staggered pattern allows for surface mount leads on a  $\ .025$  inch center line.

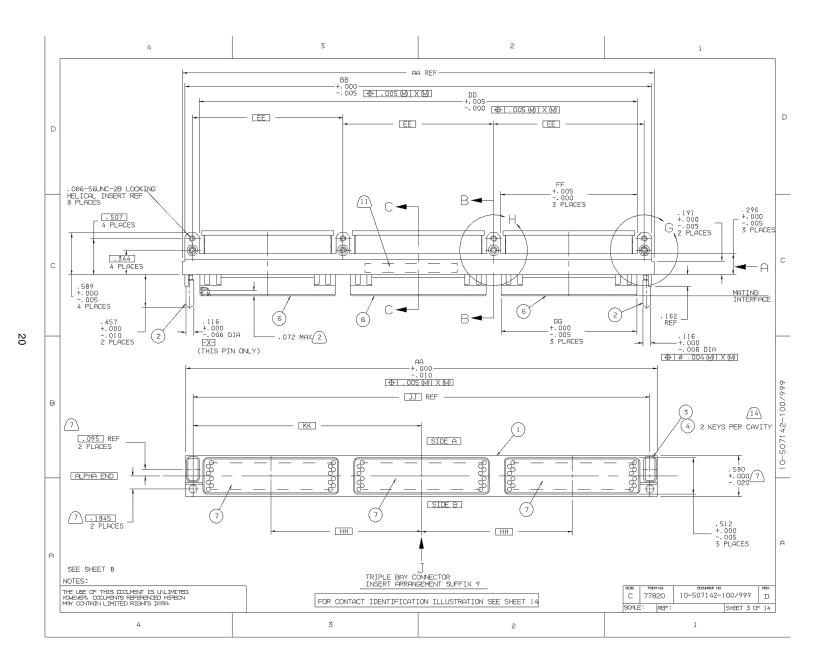
The following diagram shows the contact pattern of the staggered grid LRM Connector, .100 inch spacing along the row with .050 inch between rows, offset .050 inch (mating face).

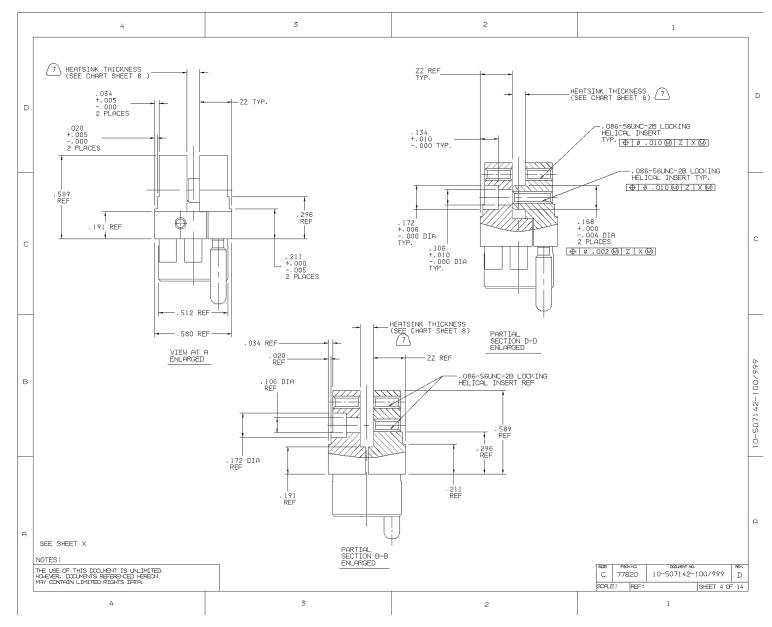


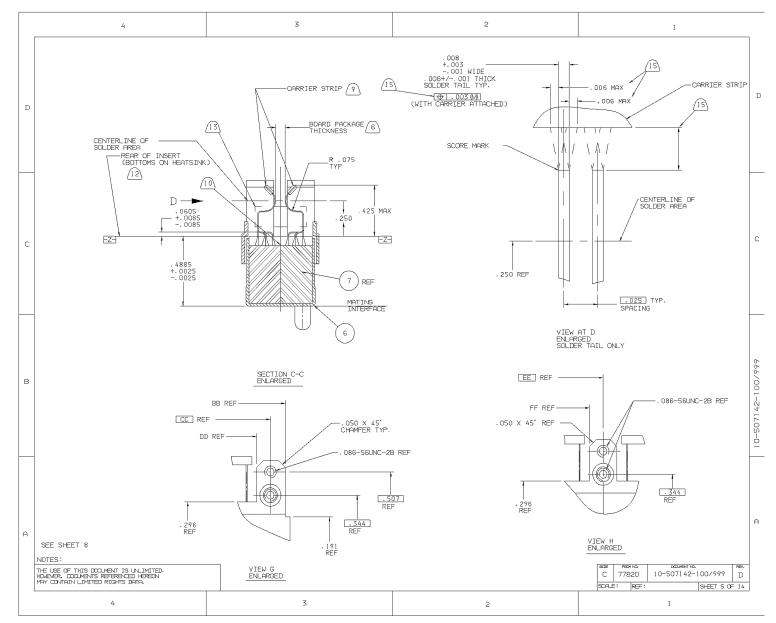


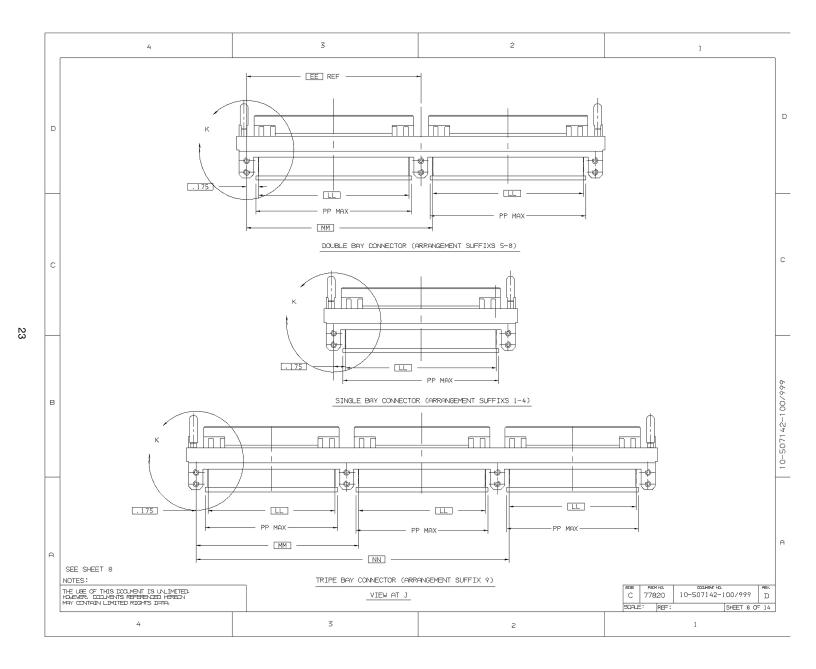


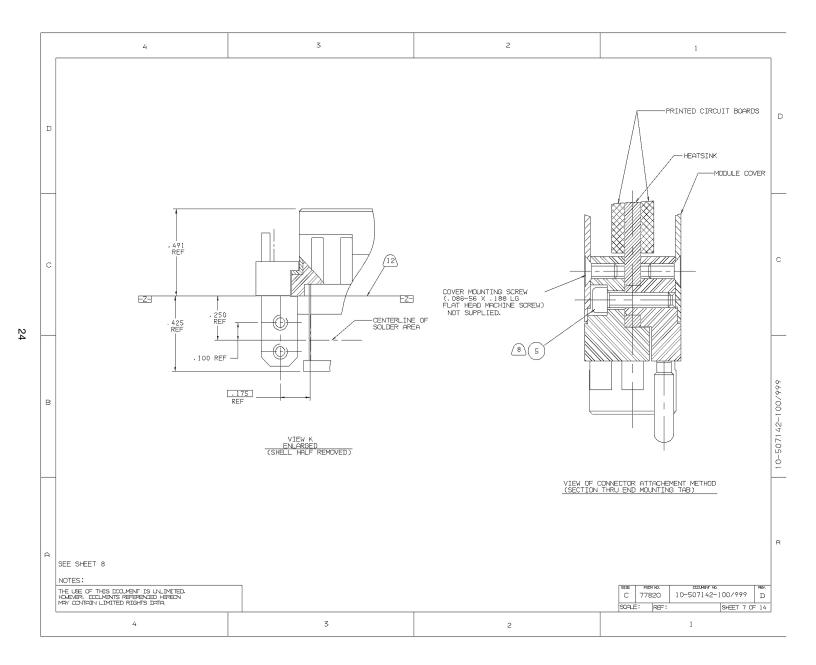
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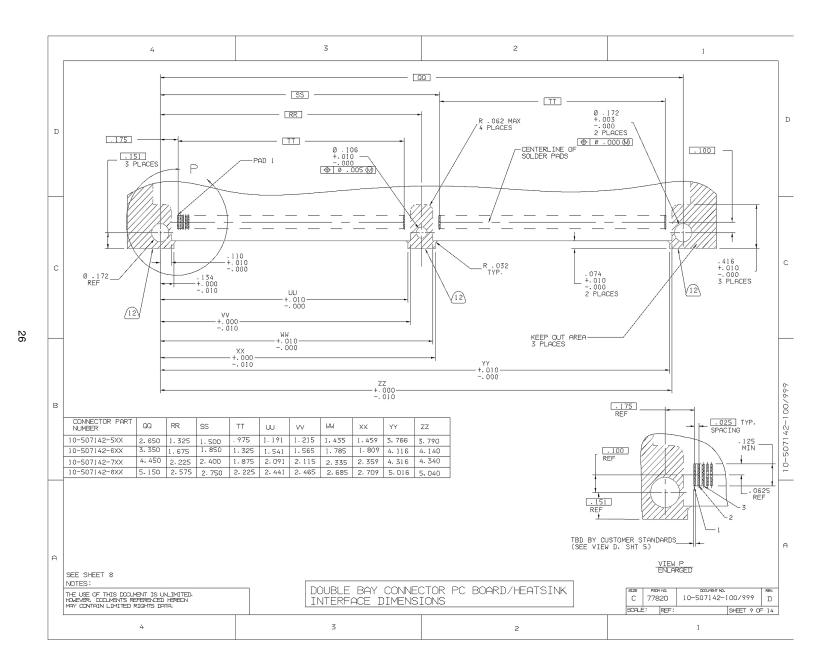


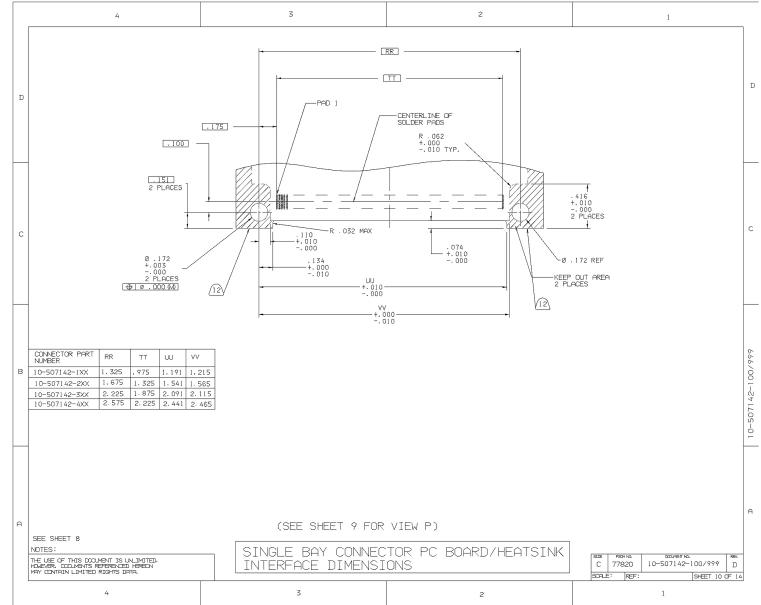


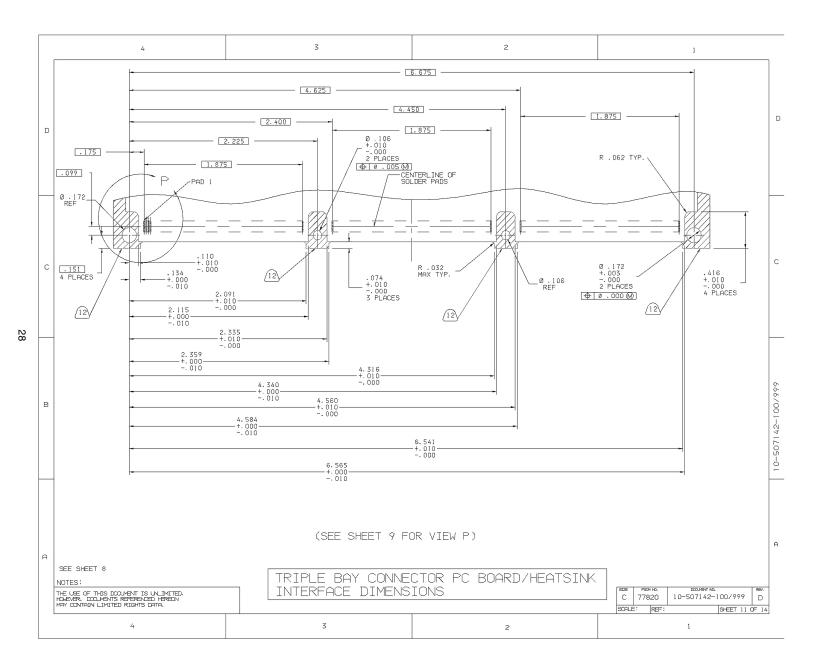


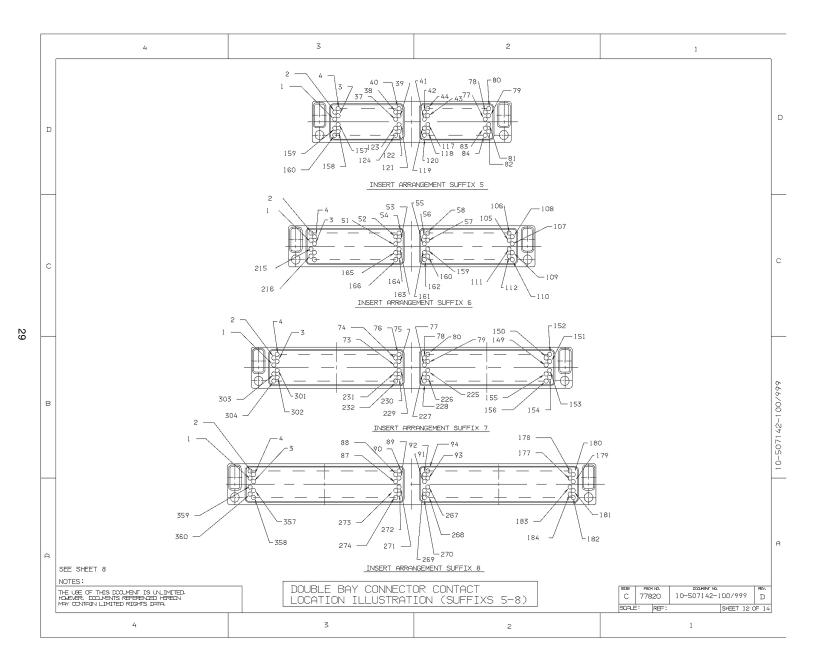


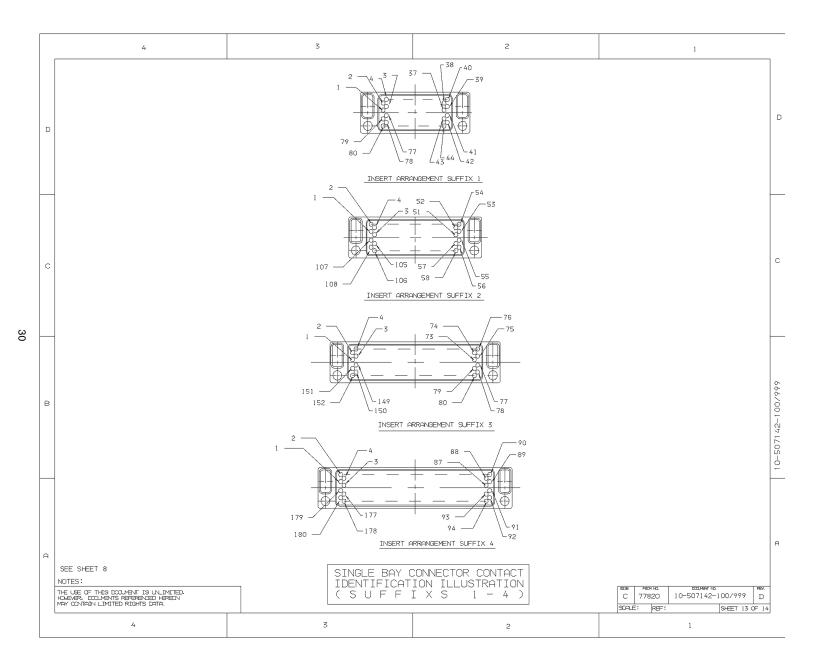
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	- H	10-507142-3XX 10-507142-4XX 10-507142-5XX		2.515 2.447 N/A 2.865 2.797 N/A 2.940 2.872 2.650			N/A	2.225	2.023	2.003	N/A	2.300	1.150	1.875	N/A	N/A	1.950	10 5	07956-3		-507910-92	10 007700 100 7		-				
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		9. CONDUCTIVE CARRIER STRIPS MUST BE REMOVED. NON-CONDUCTIVE CARRIER STRIPS ARE NOT SCORED AND MAYBE LEFT IN PLACE.       15. INDICATED GEOMETRIC TOLERANCE         18. THE CONNECTOR IS ATTACHED USING SUPPLIED MOUNTING SCREWS. SEE SHEET 7.       15. INDICATED GEOMETRIC TOLERANCE         17. INDICATED DIMENSIONS ARE APPLICABLE ONLY WHEN ASSEMBLED       15. INDICATED GEOMETRIC TOLERANCE													WEEN TH IY NOT V .OW THE :	E SCORI ARY MOI SCORE I	E MARK F RE THAN MARK,	AND TH .006	E CARRIER INCHES FRO	STRIP, THE		10-507142-100/999						
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		4. FOR N										999.		NDICATED		OF INS	ERTS BO	ттом ог	N INDIG	ATED E	DGE							
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	Ľ	NOTES: CONTACT ARE NOT REMOVABLE.														50	DE FSCH ND.	DOLIMENT NO.	REV.									
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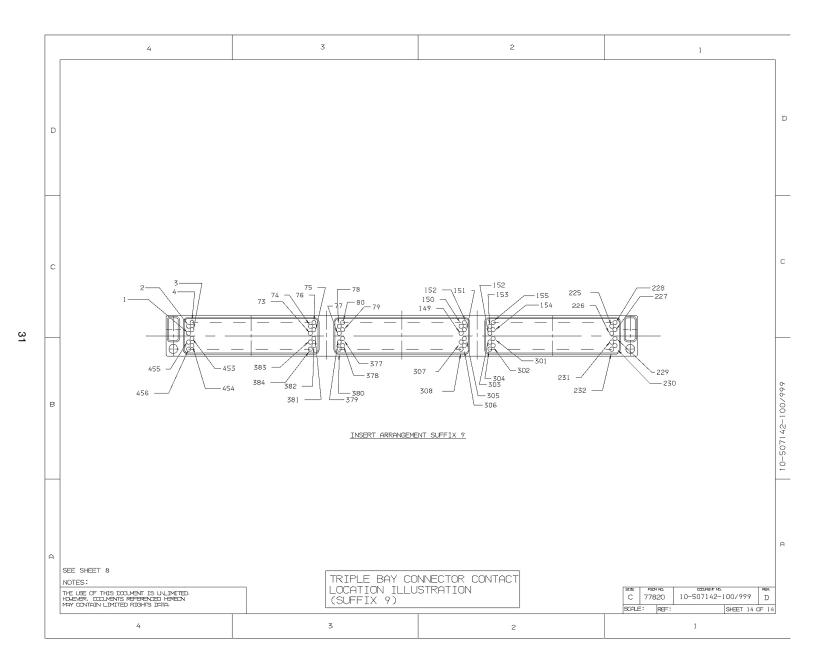












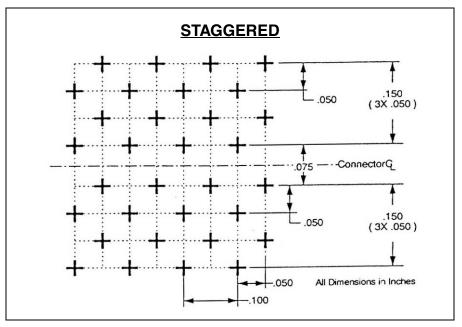
#### **Staggered Grid Pattern (Digital)**

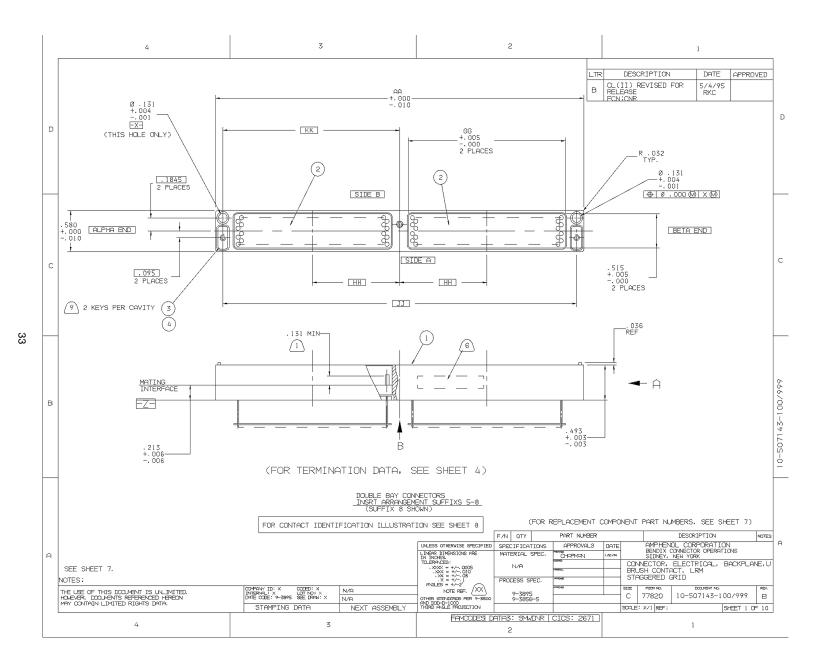
Drawing Package for Single, Double and 3-Bay Backplane Connectors

Including how to order part numbers.

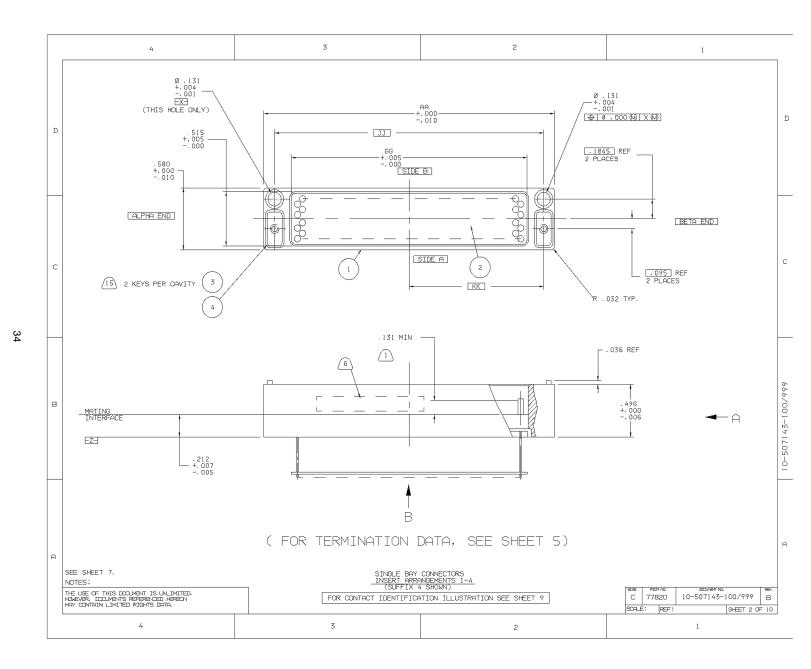
The LRM Staggered pattern allows for surface mount leads on a  $\ .025$  inch center line.

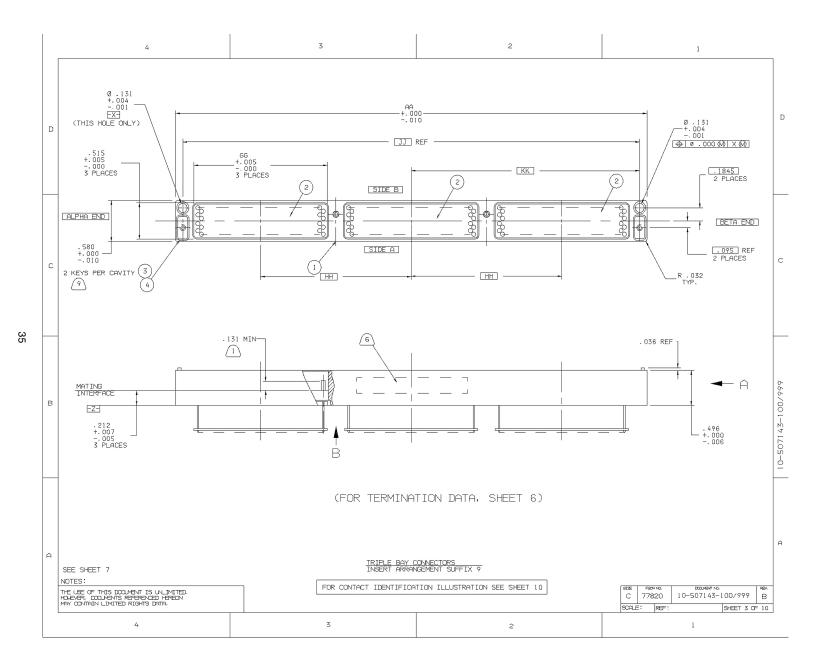
The following diagram shows the contact pattern of the staggered grid LRM Connector, .100 inch spacing along the row with .050 inch between rows, offset .050 inch (mating face).

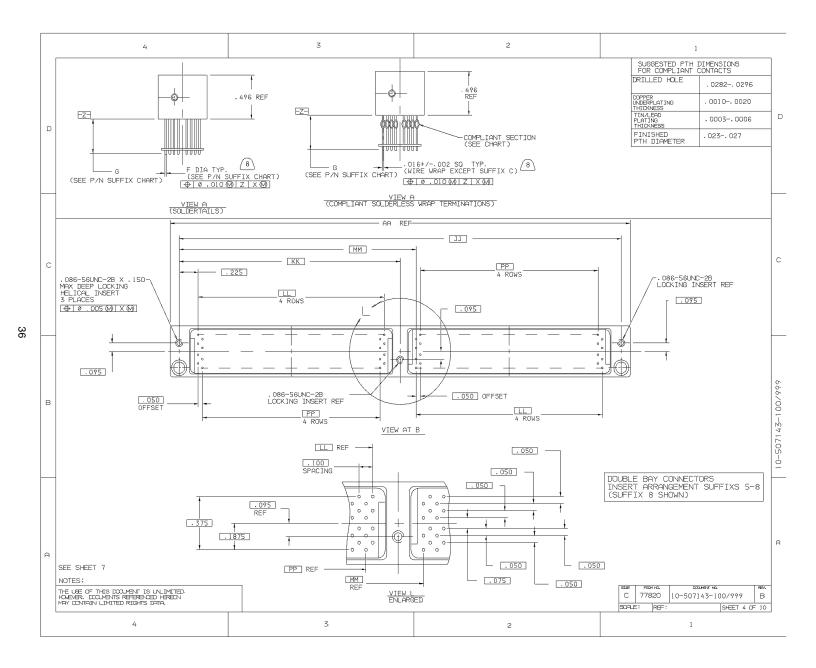


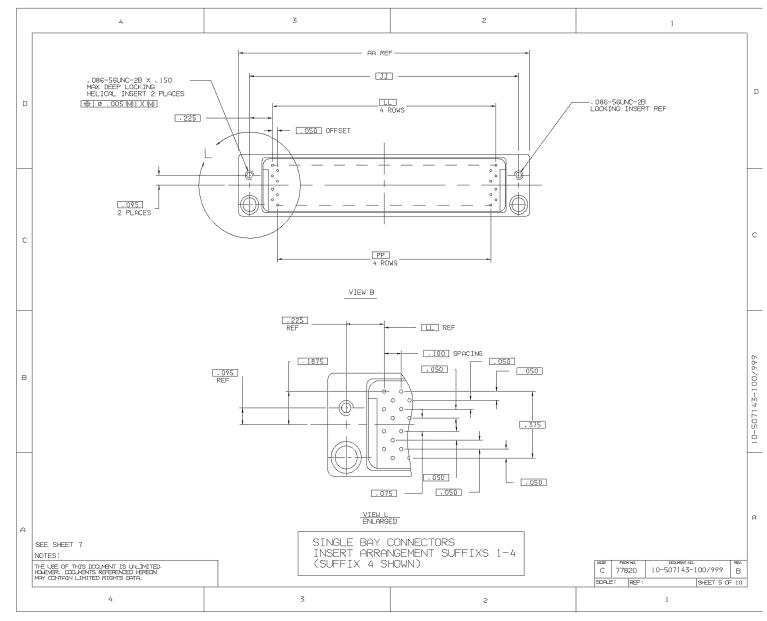


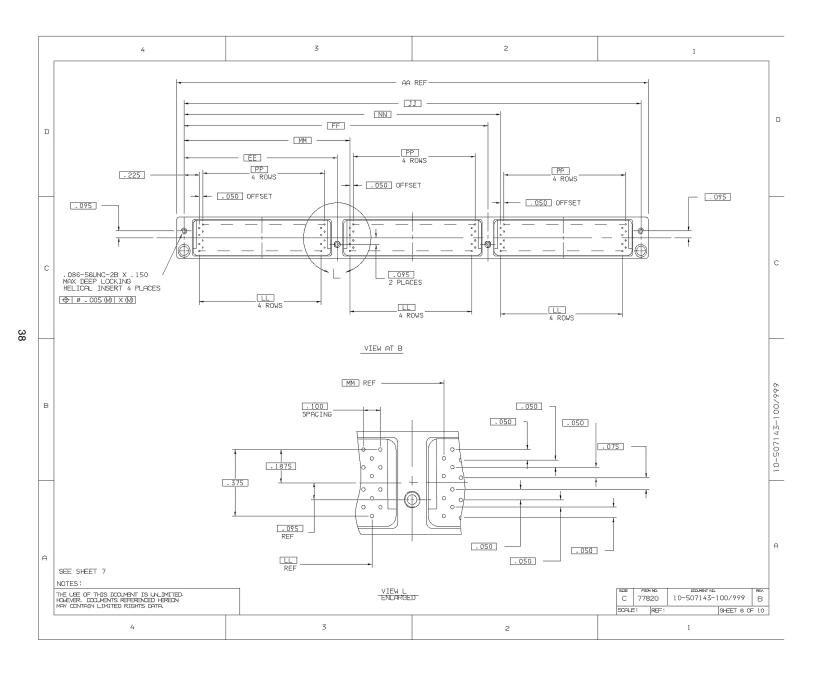
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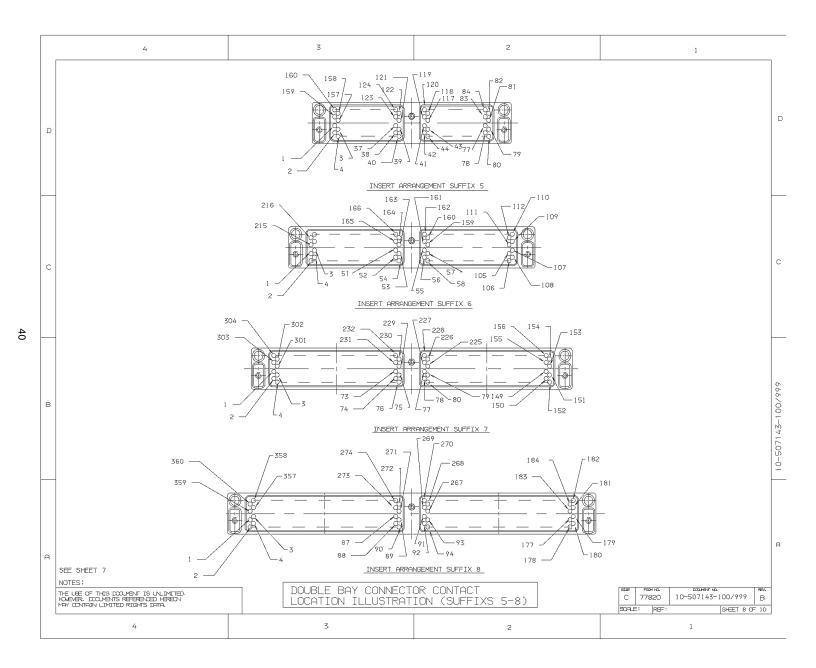


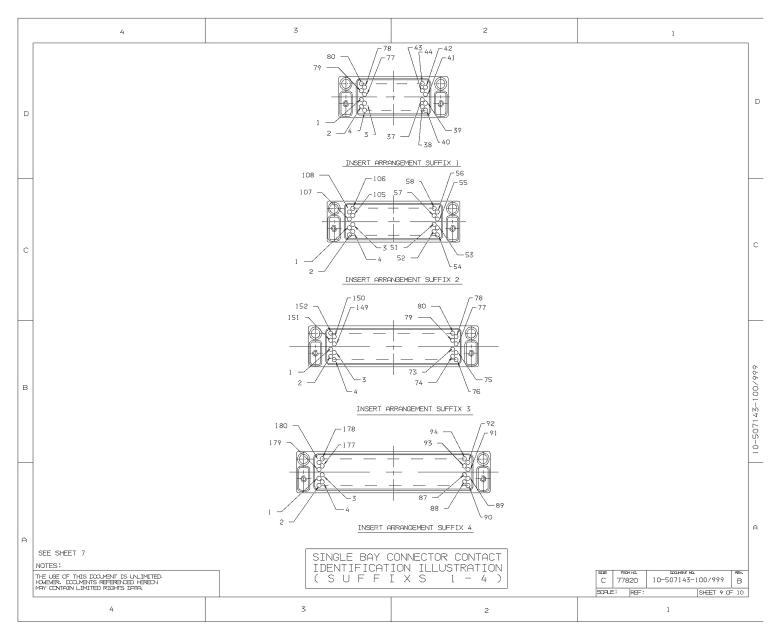


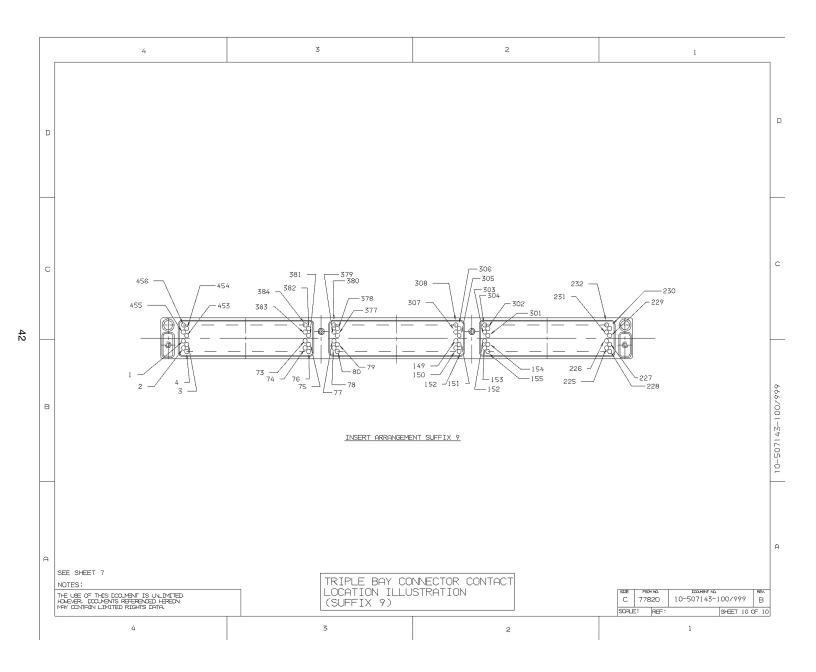


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Tempharine structur         5         64         36-0731-1         Tempharine structur         100           BARTI MUMBER SUFFIX CHART         6         64         10-07038-12         Contract Number 100         100-07038-12         Contract Number 100         100-0703         100-07038-12         Contract Number 100         100-0703         100-07038-12         Contract Number 100         100-0703         100-0704         100-0704         100-0704         100-0704         100-0704         100-0704         100-0704         100-0704         100-0704-0700         100-0704         100-0704-0		TERMINATION STYLE												-	2	10-507929	7-1				2	
PART NUMBER SUF-IX CHART         Instruction         Instructi														5	AR	10-507931	1-1				10	
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6         119         DOI:14.         COBLE BRY)         6         TOD.         6										. 30												
C       7       104       DISITEL (DOUBLE BRY)       7       1155/-7,020 (PCB)         7       105       DISITEL (DOUBLE BRY)       8       100         9       455       DISITEL (DOUBLE BRY)       9       100         9       105714-5020 (COMPL. 1. NO MAPY)       9       100       1000         10-507145-10X       1515       M       NA       1.400       700       NA       NA       1.400       1000       10507145-200 (10000       105071					-																	
C       8       380 DIBITAL (DUBLE DWY)       8       100 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td colspan="3">TBD</td> <td></td> <td></td> <td colspan="4"></td> <td></td> <td></td> <td></td>							TBD															
C         9         458 DIGITAL (TRIPLE BRY)         9         108           0         NDE         0         NDE         0         NDE         0           A         TBD         A         NA         A         NA           -         1780         -         -         -         -         -           -         1780         -         -         -         -         -           -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -           -																						
Image: Note: Not be only index in the construction of the const	C																					
A         TBD         A         B         MA           C         .157+/-020         COMPLIT.         LMPP           D         .217+/-020         COMPLIT.         LMPP           E         .317+/-020         COMPLIT.         LMPP           E         .317+/-020         COMPLIT.         LMPP           E         .317+/-020         COMPLIT.         LMPP           E         .317+/-020         COMPLIT.         LMPP           MUMBER         F         60         HH         JJ         KK         LL         MM         NN         Pp         SMBLL RSSEMBLY           10-507143-20X         1.615         NA         NA         1.400         100-507745-21         10-507745-				TRIPLE	BAY)																	
CONNECTOR PRPT         A         D         ISTY020         COMPLT         NO MREP           D         -2117/020         COMPLT         I MARPY         INSERT RSSEMELY           E         -3117/020         COMPLT         I MARPY         INSERT RSSEMELY           E         -3117/020         COMPLT         I MARPY         INSERT RSSEMELY           F         -4174/020         COMPLT         I MARPY         INSERT RSSEMELY           F         -4174/020         COMPLT         I MARPY         ITO COMPLT           ID-507142-1XX         1.615         IN         NA         1.750         IN           ID-507142-5XX         1.816         NA         NA         2.300         IN         NA         1.0507765-21         I D-507755-21         I D -507755-21         I D							NONE N/A															
D         -2174-020         COMPLIA - 1.16         Indepresentation           0         -8174-020         COMPLIA - 2.4 WRAPD         Indepresentation         Indepresentation           0         -8174-020         COMPLIA - 2.4 WRAPD         Indepresentation         Indepresentation           0         MARCHINE REPRESENTATION FILMENTATION F		Н								<u> </u>	1.41.1											
E																						
F         4174-/-020 (COMPLIT. 3 MARP)         INSERT PASCHALY           COMPETTOR PART         AR         EE         FF         60         HH         JJ         KK         LL         MM         NN         P         SHELL RSSEMELY         ADD TERM SUFFIXS           10-507143-2XX         1.955 NA         NA         1.107         N/A         1.400         700         10-507745-51         10-507785-1(3 (3))           10-507143-2XX         2.956 NA         NA         1.457 N/A         1.570         .875         1.300         NA         NA         1.200         10-507745-1(1 (-507785-2(3) (1))           10-507143-2XX         2.960 NA         NA         2.357         1.325         2.200         1.352         2.200         1.352         2.200         1.900         10-507745-41         10-507785-1(3 (1))           10-507143-7XX         4.740 NA         NA         2.2225         1.7125         1.200         10-507745-1(1 (-507785-2(3 (1)))         10-507745-1(1 (-507785-2(3 (1)))         10-507745-1(1 (-507785-2(3 (1)))         10-507745-1(1 (-507785-2(3 (1)))         10-507745-1(1 (-507785-2(3 (1)))         10-507745-1(1 (-507785-2(3 (1)))         10-507745-1(1 (-507785-2(3 (1)))         10-507745-1(1 (-507785-2(3 (1)))         10-507745-1(1 (-507785-2(3 (1)))         10-507745-1(1 (-507785-2(3 (1)))         10-507785-1(1 (-507785																						
CONTECTOR         PART         AR         EE         FF         GG         HH         JJ         KK         KL         MM         NN         PP         SHELL ASSEMEL         COOVERTIE         COOVERTIE         COOVERTIE           10-507143-12X         1.615         NA         NA         1.407         N/A         1.400         .700         .900         NA         NA         .900         TO-507143-11         10-507745-21         10-507													Т	NSERT	OSSEMBLY							
NAMER         H4         L         In         Bor         In         Bor         L         In         In         Bor         In         In         Bor		CONNECTOR P	ART	FE		00		11	IZIZ.		104	N.B.I		SHELL ASSEMB	1 1 (	TO CC	MPLETE					
10-507143-20X       1.965       NA       NA       1.457       N/A       1.750       .875       1.300       NA       NA       1.200       10-50795-21 <td></td> <td>1.1</td> <td></td> <td>H</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>													1.1		H							
10-507143-3XX       2.515       NA       NA       2.300       NA       2.300       NA       <				-	-										-							
B       10-507143-4XX       2.865       NA       NA       2.357       N/A       2.650       NA       NA       2.100       10-507745-41       10-507745-41       10-507745-41       10-507745-41       10-507745-41       10-507745-41       10-507745-41       10-507745-41       10-507745-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507795-41       10-507145-1			7/7 · · · ·								1.4.7											
B       10-507143-5XX       2.940       NA       NA       1.107       6625       2.725       1.3625       900       1.550       NA       .900       10-507745-51       10-507795-1(.)(.)         10-507143-5XX       3.640       NA       NA       1.125       1.3625       .900       1.550       NA       .900       10-507795-1       10-507959-1(.)(.)         10-507143-5XX       4.740       NA       NA       2.452       1.7125       1.300       1.900       NA       1.200       10-507945-61       10-507959-1(.)(.)         10-507143-5XX       5.440       NA       NA       2.357       1.2875       5.225       2.6125       2.200       2.800       NA       2.100       10-507945-91       10-507959-4(.)(.)         10-507143-5XX       6.965       2.2625       4.4875       2.082       2.800       NA       2.100       10-507945-91       10-507959-4(.)(.)         10-507143-5XX       6.965       2.2625       4.4875       2.082       2.450       4.675       1.800       10-507945-91       10-507959-4(.)(.)         5.       BRUEH CONTACTS WITH PCB TAIL TERMINATION STYLE       TERMINATION STYLE       TERMINATION STYLE       TERMINATION STYLE       TERMINATION STYLE       TERMINATION STYLE       10									-													
ID-507143-6XX         S. 640         NA         NA         I. 457         8375         S. 422         I. 7125         I. 300         I. 900         NA         I. 200         ID-507743-6X         ID-507785-2()()           10-507143-6XX         S. 440         NA         NA         2.008         I. 1125         4.525         2.2825         1.800         10-507745-61         ID-507785-2()()           10-507143-6XX         S. 440         NA         NA         2.500         2.600         NA         1.800         ID-507785-2()()           10-507143-6XX         S. 440         NA         NA         2.500         2.600         NA         1.900         NA         1.900 <t< td=""><td>R</td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	R			-																		
IO: 101	1																					
IO-507143-8XX       5.440       NA       NA       2.357       I.2875       5.226       2.6125       2.200       2.800       NA       2.100       IO-507745-81       ID-50795-4()()         10-507143-8XX       6.965       2.2625       4.4875       2.008       2.225       6.750       3.375       1.800       2.4601       NA       2.100       IO-507959-4()()         5. BRUSH CONTACTS WITH PCB TAIL TERMINATIONS ARE NOT REMOVABLE. THE REGAR OF THE INSERTIS SEQLED. COMPLAINT CONTACTS ARE REMOVABLE FROM THE FRONT.       TERMINATION FINISH:       TERMINATION FINISH:       TERMINATION FINISH:       TERMINATION FINISH:       TERMINATION FINISH:       TERMINATION FINISH:       0.0049LiENT TERMINATION FINISH:       SOUTH CT AND MUST BE REPLACED WHEN REFAINS MORE NOT RECOMPLETE THE RESEMBLY. RETAINING RINSS ARE REDUIKED TO COMPLETE THE RESEMBLY. RETAINING RINSS ARE REDUIKED.       TO COMPLETE THE RESEMBLY. RETAINING RINSS ARE REDUIKED.         0. INDICATED PARTS ARE SHOWN ASSEMBLED. THESE PARTS WILL BE SHIPPED UNSSEMBLED.       SOUTH THE NUMBER ARE SHOWN ASSEMBLED. THESE PARTS WILL BE SHIPPED UNSSEMBLED.       SOUTH TO FELECTRICAL ENGAGEMENT.       NUMBER AND DATE CODE ON INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT.         NOTES:       THE USE OF THIS DOUMENT IS UNIMITED. NOTES:       SOUTH TO SOUTH TERMINATION OF ASSEMBLED.       SOUTH THE REPORT OF ASSEMBLED.       SOUTH THE REPORT OF ASSEMBLED.         1. INDICATED DIMENSIONE IS TO POINT OF ELECTRICAL ENGAGEMENT. NOTES:       NOTH				-		2.008	1 1125			1.800												
10-507143-9XX       6.965       2.2625       4.4875       2.008       2.225       6.750       3.375       1.800       2.450       4.675       1.0-507945-91       10-507945					NĤ	2.357				2.200												
S. BRUSH CONTECTS WITH PCB TAIL TERMINATIONS ARE NOT REMOVABLE. THE REAR OF THE INSERT IS SEALED. COMPLAINT CONTACTS ARE REMOVABLE FROM THE FRONT.       TERMINATION STYLE         4. CONTACT TERMINATION FINISH: PCB TERMINATION FINISH IS 60/40 TIN/LEAD SOLDER DIPPED. COMPLIANT TERMINATION FINISH IS 60/40 TIN/LEAD SOLDER DIPPED.       10. INDICATED UTEMS ARE REPAIR OR REPLACEMENT COMPONENT PART NUMBERS.         5. FOR MATING MODULE CONNECTOR ASSEMBLY. SEE DRAWING 10-507142-100/999.       7. A TOTAL OF 4 KEYS AND 2 RETAINING RINGS ARE REQUIRED TO COMPLETE THE ASSEMBLY. RETAINING CONNECTOR.         6       INDICATED PARTS ARE SHOWN ASSEMBLED. THESE PARTS WILL BE SHIPPED UNASSEMBLED.       SE ORMAINS 10-507142-100/999.         1. INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT. NOTES:       INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT. NOTES:         THE USE OF THIS DOMENT IS ULLIMITED THE USE OF THIS DOMENT IS ULLIMITED. NARE, TOOMANT REPERENCED HEREN MAY CONTACT NEEDED AND DATE       BLACK INK STAPP "BENDIX" 77820, PART NUMBER AND DATE CODE ON INDICATED DARS NEEDERDED HEREN MAY CONTACT NEEDER AND DATE		10-507143-9	XX 6.965		4. 4875	2.008		6.750	3.375	1.800		4.675			1	0-50	7959-3()(					
REMOVABLE: THE REAR OF THE INSERT IS SEALED. COMPLAINT CONTACTS ARE REMOVABLE. FROM THE FRONT.     4. CONTACTS ARE REMOVABLE FROM THE FRONT.     5. COMPLIANT TERMINATION FINISH IS 60/40 TIN/LEAD SOLDER DIPPED.     5. COMPLIANT TERMINATION FINISH IS 60/40 TIN/LEAD SOLDER DIPPED.     5. COMPLIANT TERMINATION FINISH IS 60/40 TIN/LEAD SOLDER DIPPED.     5. COMPLIANT TERMINATION FINISH IS 60/40 TIN/LEAD SOLDER DIPPED.     5. COMPLIANT TERMINATION FINISH IS 60/40 TIN/LEAD SOLDER DIPPED.     5. COMPLIANT TERMINATION FINISH IS 60/40 TIN/LEAD SOLDER DIPPED.     5. COMPLIANT TERMINATION FINISH IS 60/40 TIN/LEAD SOLDER DIPPED.     5. COMPLIANT TERMINATION FINISH IS 60/40 TIN/LEAD SOLDER DIPPED.     5. COMPLIANT TERMINATION FINISH IS CONNECTOR ASSEMBLED. THESE PARTS WILL     6. BLACK INK STAPP "BENDIX" 77820. PART NUMBER AND DRG PRG SOLDER PRO TABLE     5. COMPLETE THE SOLDENT OF THIS DOLENT OF ELECTRICAL ENGAGEMENT.     10. INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT.     10. INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT.     10. INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT.     10. INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT.     10. INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT.     10. INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT.     10. INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT.     10. EGG FT HIS DOLMANT REPERSED HERE.     10. EGG FT HIS DOLMANT REPERSED HERE.     10. EGG FT HIS DOLMANT REPERSED HERE.     10. FORMATION LIMITED RIGHTS DATA     10. FORMATION LIMITED RIGHTS DATA			NTOCTO VITI					т.												STICKOUT		
<ul> <li>4. CONTACT TERMINATION FINISH: PCB TERMINATION FINISH IS 60/40 TIN/LEAD SOLDER DIPPED. COMPLIANT TERMINATION WRAP NUMBERS ARE REQUIRED TO COMPLETE THE RESEMBLY. RETAINING RINGS ARE NOT REUSABLE 3. FOR MATING MODULE CONNECTOR ASSEMBLY. SEE DRAWING 10-507142-100/999. 2. INDICATED PARTS ARE SHOWN ASSEMBLED. THESE PARTS WILL BE SHIPPED UNASSEMBLED. 1. INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT. NOTES: THE USE OF THIS DOUMNT IS ULIMITED. MAYER REQUESTED BY PURCHASE ORDER. THE USE OF THIS DOUMNT IS ULIMITED. MAYER REQUESTED BY PURCHASE ORDER. MAYER REQUESTED BY PURCHASE ORDER. MAYER REQUESTED BY PURCHASE ORDER. MAYER REQUESTED BY PURCHASE ORDER. BERCH THE REGIMENT OF 10 SPALE: REF: SHEET 7 OF 10 DESC. THE USE OF THIS DOUMNT SUMPLY AND AND AND AND AND AND AND AND AND AND</li></ul>		REMOVABL	E. THE REAL	R OF THE	E INSER	T IS SEAL	ED. COM	, PLAINT														
PCB TERMINATION FINISH IS 60/40 TIN/LEAD SOLDER DIPPED.       COMPLIANT TERMINATION FINISH IS 60LD PLATE PER MIL-G-45204, TYPE II, 000050 MIN THK OVER .000050 MIN THK NICKEL.       COMPLIANT TERMINATION FINISH IS 60LD PLATE PER MIL-G-45204, TYPE II, 000050 MIN THK OVER .000050 MIN THK NICKEL.       COMPLIANT TERMINATION WRAP NUMBERS ASSUME A .125 INCH THICK BACKPLANE.         3. FOR MATING MODULE CONNECTOR ASSEMBLY, SEE DRAWING 10-507142-100/999.       INDICATED POSITIONAL TOLERANCE ID FOR PCB TERMINATION ONLY.         A       BE SHIPPED UNASSEMBLED.       THESE PARTS WILL         B.       BLACK INK STAMP "BENDIX" 77820, PART NUMBER AND DATE CODE ON INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT.         NOTES:       THE USE OF THIS DOUMNT IS ULIMITED. HAVE/ER: DOUMNT REPERCED FREEN         THE USE OF THIS DOUMNT IS ULIMITED. HAVE/ER: DOUMNT SEPTEMENDED HEREN       EXEMPTION MAY CONTRINUE/MITED REPERCED FREEN	-	CONTACTS	ARE REMOVI	ABLE FRO	OM THE I	-RONT.					10	IND:	ICATED I	FEMS ARE REPAI	IR OR	REPLA	ACEMENT CC	MPONEN	NT PART NUMB	ERS.		
COMPLIANT TERMINATION FINISH IS GOLD PLATE PER MIL-G-45204, TYPE II, .000050 MIN THK OVER .000050 MIN THK NICKEL.       A         3. FOR MATING MODULE CONNECTOR ASSEMBLY, SEE DRAWING 10-507142-100/999.       B. COMPLIANT TERMINATION WRAP NUMBERS ASSUME A .125 INCH THICK BACKPLANE.         4.       INDICATED PARTS ARE SHOWN ASSEMBLED. THESE PARTS WILL BE SHIPPED UNASSEMBLED.       INDICATED POSTITIONAL TOLERANCE ID FOR FOB TERMINATION ONLY. THIS TOLERANCE PAPLIES WHEN BOTTOM OF INDICATED ORGANIZER IS WITHIN .020 INCH OF TAIL END.         A.       INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT. NOTES:       BLACK INK STAMP "BENDIX" 77820, PART NUMBER AND DATE CODE ON INDICATED SURFACE PER .9-3856-5. DATE CODE PER .9-3875. CHARAPTERS TO BE. 0624/020 HIGH. ADDITIONAL INCRMATION MAYEE REQUESTED BY PURCHASE ORDER.         THE USE OF THIS DOUMENT IS UNIMATED. HORE REPORTS BATE.       INDICATED FOR TERMINATION MAYEE REQUESTED BY PURCHASE ORDER.         THE USE OF THIS DOUMENT IS UNIMATED. HORE REPORTS THE REPORTS DATE.       INDICATED BY PURCHASE ORDER.         THE USE OF THIS DOUMENT IS UNIMATED. HORE REPORTS TO POINT OF ELECTRICAL ENGAGEMENT. HORE REQUESTED BY PURCHASE ORDER.       INDICATED SUMPLY .020 HIGH. ADDITIONAL INCRMATION MAYEE REQUESTED BY PURCHASE ORDER.		4- CONTACT	TERMINATIO	N FINISH	H: 60740 1		SOL DER	NTPPEN			9.	A TO	TAL OF 4	KEYS AND 2 RE		NG R	INGS ARE R	EQUIRE	ED TO SARLE			
TYPE II, .000050 MIN THK OVER .000050 MIN THK NICKEL.       8. COMPLIANT TERMINATION WRAP NUMBERS ASSUME A .125 INCH THICK BACKPLANE.         3. FOR MATING MODULE CONNECTOR ASSEMBLY, SEE DRAWING 10-507142-100/999.       1. INDICATED PARTS ARE SHOWN ASSEMBLED. THESE PARTS WILL       8. COMPLIANT TERMINATION WRAP NUMBERS ASSUME A .125 INCH THICK BACKPLANE.         A       1. INDICATED PARTS ARE SHOWN ASSEMBLED. THESE PARTS WILL       6. BLACK INK STANP "BENDIX" 77820. PART NUMBER AND DATE CODE IS WITHIN .020 INCH OF TAIL END.         A       1. INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT. NOTES:       6. BLACK INK STANP "BENDIX" 77820. PART NUMBER AND DATE CODE CHARACTERS TO BE .0624/020 HIGH. ADDITIONAL INCRAFTION HAPPENED HEREN MAY BE REQUESTED BY PURCHASE ORDER.         THE USE OF THIS DOLMENT IS UNIMATED HEREN MADE HEREN MAD TO A COMMAN SHERE RECUESTED BY PURCHASE ORDER.       REF:         MAYEE REQUESTED BY PURCHASE ORDER.       REF:       SHERT 7 OF 10         MAYEE REQUESTED BY PURCHASE ORDER.       REF:       SHERT 7 OF 10												AND N	NUST BE F	REPLACED WHEN	REKEY	ING	CONNECTOR.	I NEO	JADEE			
2. INDICATED PARTS ARE SHOWN ASSEMBLED. THESE PARTS WILL     BE SHIPPED UNASSEMBLED.     1. INDICATED DIMENSIONB IS TO POINT OF ELECTRICAL ENGAGEMENT.     NOTES:     THE USE OF THIS DOLMENT IS ULIMITED     HOLDED HEREN     MAYER CONTAIN LIMITED     HOLDED HEREN									204,		8.	COMPL	_IANT TER	MINATION WRAF	> NUME	ERS F	ASSUME A .	125 IN	NCH THICK BA	CKPLANE.		
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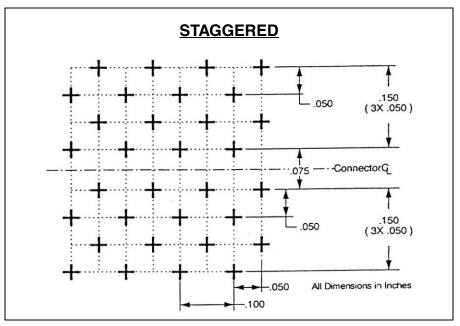
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## Staggered Grid Pattern Hybrid Insert Illustrations

Including how to order part numbers.

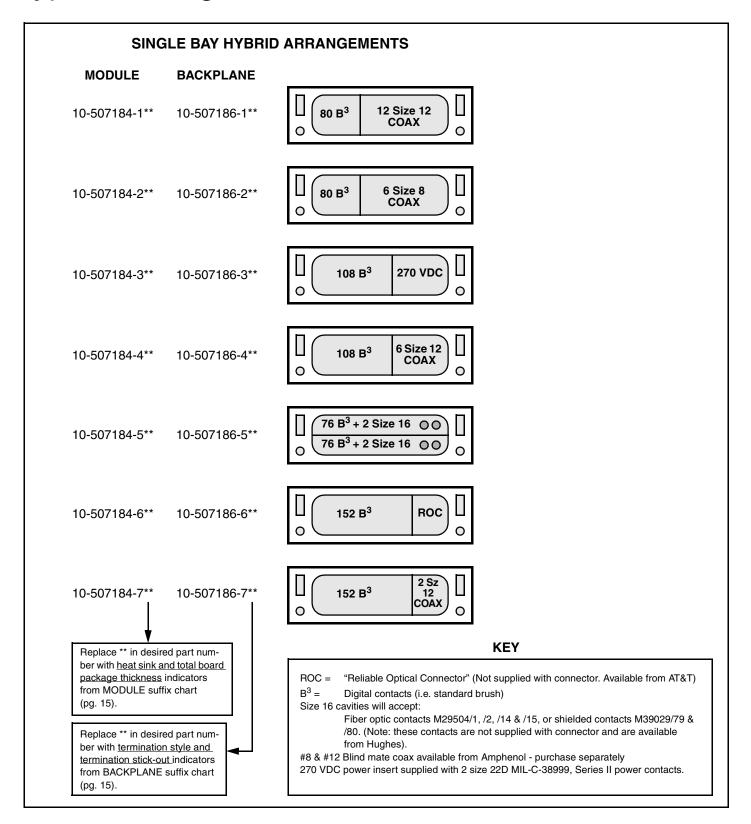
The LRM Staggered pattern allows for surface mount leads on a .025 inch center line.

The following diagram shows the contact pattern of the staggered grid LRM Connector, .100 inch spacing along the row with .050 inch between rows, offset .050 inch (mating face).



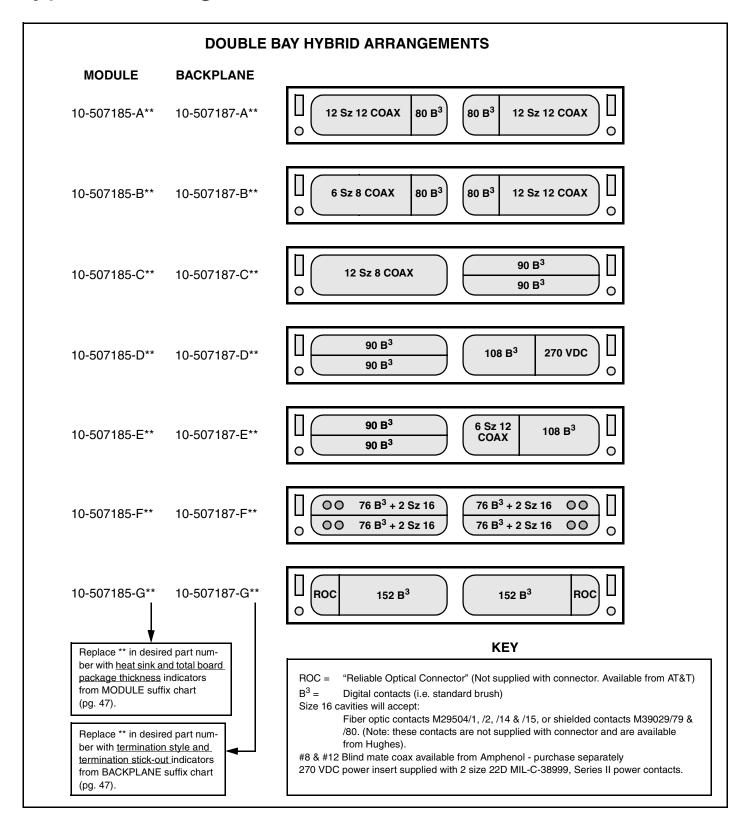
# Staggered Grid, 360 Contacts LRM Connectors

typical arrangements, how to order



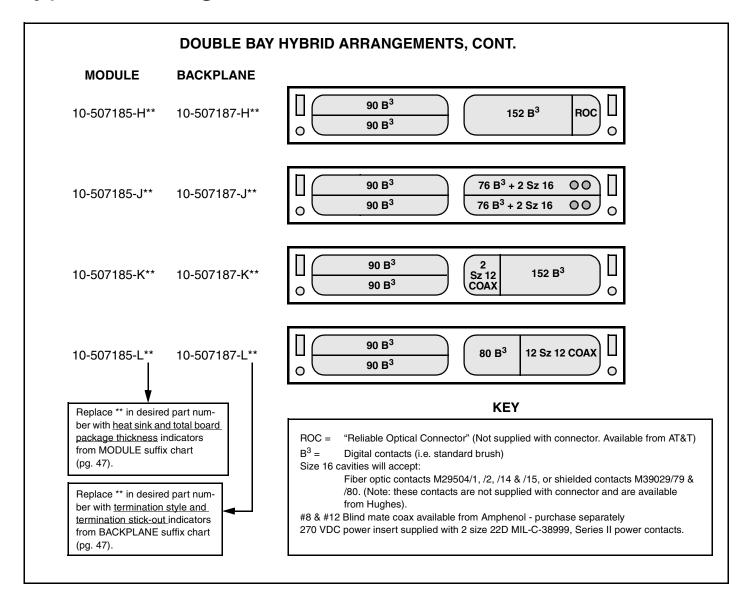
# Staggered Grid, 360 Contacts LRM Connectors

typical arrangements, how to order



## Staggered Grid, 360 Contacts LRM Connectors

typical arrangements, how to order



## LRM Hybrid Connectors part number suffixes

The following charts identify the part number suffixes to be used when ordering Hybrid LRM Connectors. (Refer to preceding pages of Hybrid Arrangements and also to the Staggered Grid drawing packages in this document).

#### **HYBRID MODULE SUFFIX CHARTS**

#### **HEATSINK THICKNESS**

Suffix	Description
1	.125 ± .005
2	.100 ± .005
3	.075 ± .005
4	.062 ± .005
5	.035 ± .005

#### TOTAL BOARD PACKAGE THICKNESS

Suffix	Description
1	Surface Mount / .090 – .130 Package
2	Surface Mount / .130 – .190 Package
3	Surface Mount / .190 – .250 Package
4	Surface Mount / .060 – .100 Package
5	Surface Mount / .100 – .160 Package
6	Surface Mount / .160 – .220 Package

#### HYBRID BACKPLANE SUFFIX CHARTS

#### **TERMINATION STYLE**

Suffix	Description - Dimension "F" (See Staggered Grid Drawings)						
1	.021 ± .002 Dia. PCB Tail						
2	.016 ± .002 Dia. PCB Tail						
3	.012 ± .002 Dia. PCB Tail						
4	N/A						
5	Compliant						

#### **TERMINATION STICKOUT**

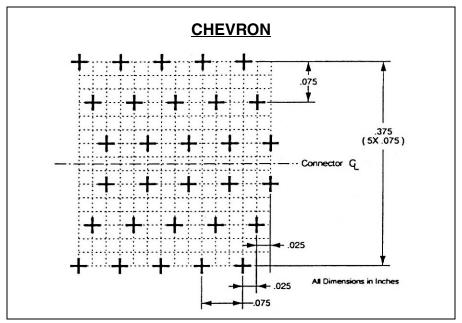
Suffix	Description - Dimension "G" (See Staggered Grid Drawings)						
1	.150 ± .020 (PCB)						
2	.200 ± .020 (PCB)						
3	.250 ± .020 (PCB)						
4	.300 ± .020 (PCB)						
5	.350 ± .020 (PCB)						
6	.400 ± .020 (PCB)						
7	.185 ± .020 (PCB)						
8	.450 ± .020 (PCB)						
9	.500 ± .020 (PCB)						
С	.157 ± .020 (Compliant, No Wrap)						
D	.217 ± .020 (Compliant, 1 Wrap)						
E	.317 ± .020 (Compliant, 2 Wrap)						
F	.417 ± .020 (Compliant, 3 Wrap)						

### Chevron Pattern LRM Connectors

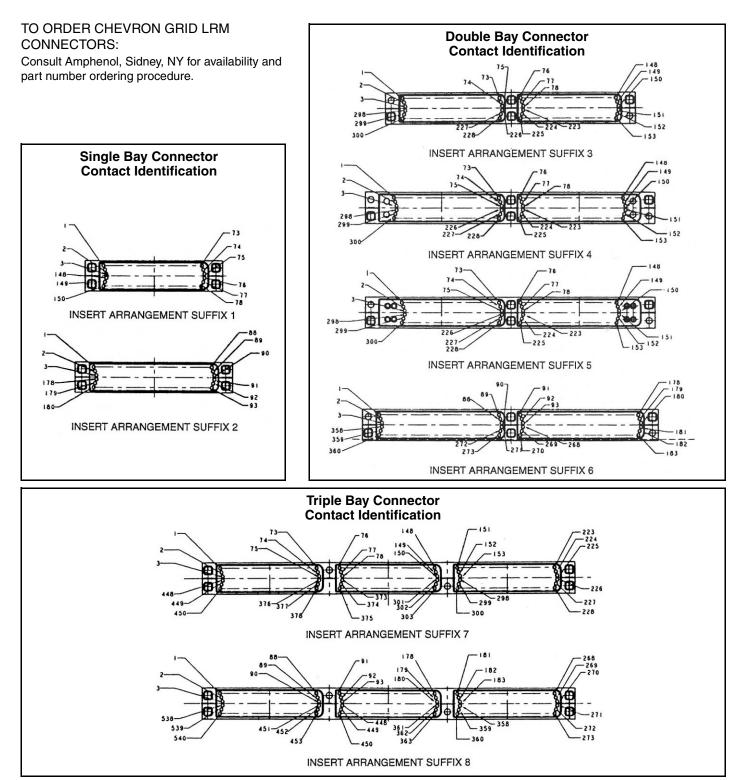
Insert arrangements

The LRM Chevron pattern allows for surface mount leads on a  $\ .025$  inch center line.

The following diagram shows the contact pattern of the chevron grid LRM Connector, .075 inch spacing along the row with .075 inch between rows, offset .025 inch (mating face).



# Chevron Grid LRM Connectors insert arrangements



Front of module connector shown. Backplane will be mirror image.