

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0039299243](#)
Status: **Active**
Overview: [minifit_jr](#)
Description: 4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 24 Circuits, PA Polyamide Nylon 6/6 94V-2, Tin (Sn) Plating, without Drain Holes

Documents:	
3D Model	Product Specification PS-5556-001 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

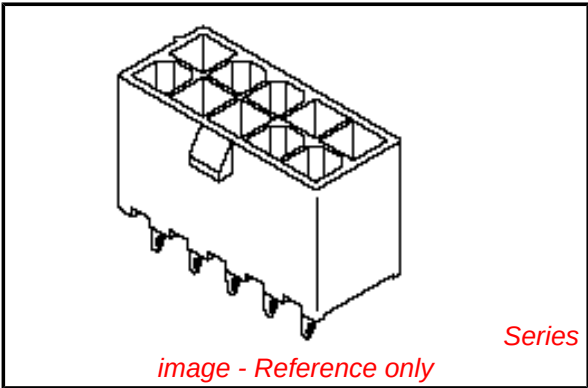
CSA	LR19980
TUV	R72081037
UL	E29179

General

Product Family	PCB Headers
Series	5566
Application	Wire-to-Board
Comments	Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 Mini-Fit Plus HCS™ Crimp Terminal Crimped to to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.. High Temperature, Square Pin, Solder Type
Overview	minifit_jr
Product Name	Mini-Fit Jr.™

Physical

Breakaway	No
Circuits (Loaded)	24
Circuits (maximum)	24
Color - Resin	Natural
Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-2
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.138 In
PC Tail Length (mm)	3.50 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.165 In
Pitch - Mating Interface (mm)	4.20 mm



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status
Not Reviewed

China RoHS

Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[5566Series](#)

Mates With
[5557](#) Mini-Fit Jr.™ Receptacle Housing

Pitch - Term. Interface (in)	0.165 In
Pitch - Term. Interface (mm)	4.20 mm
Plating min: Mating (µin)	35
Plating min: Mating (µm)	0.90
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.50
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	13A
Voltage - Maximum	600V

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	240

Material Info

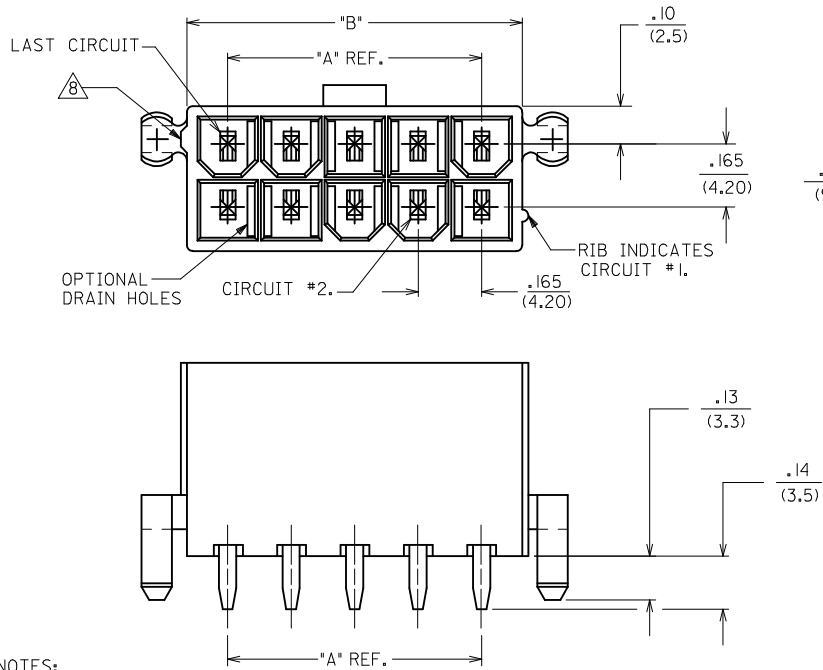
Old Part Number	5566-24A2
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Reference - Drawing Numbers

Packaging Specification	PK-5566-001
Product Specification	PS-5556-001
Sales Drawing	SDA-5566-N*2*-*
Test Summary	TS-5556-002

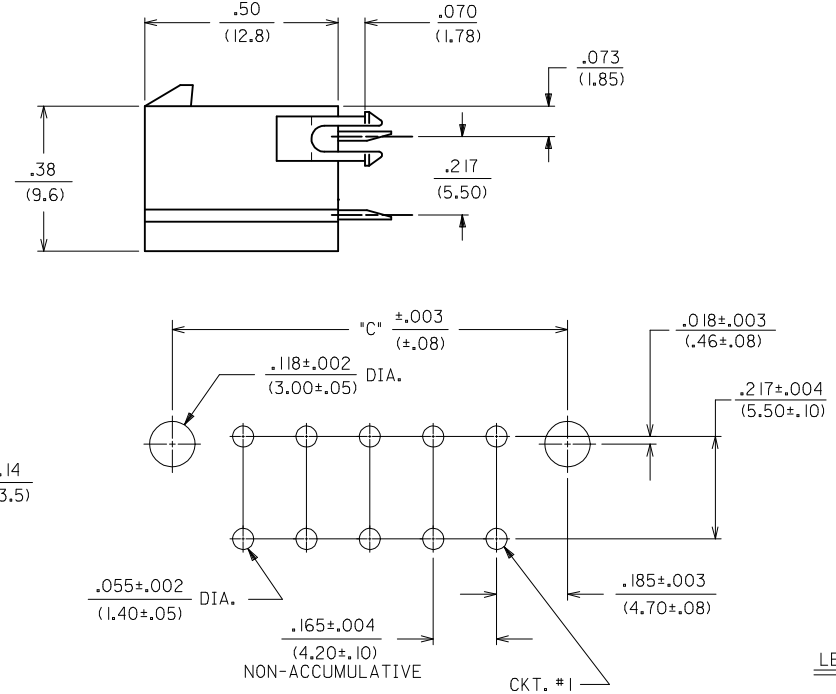
This document was generated on 05/21/2010

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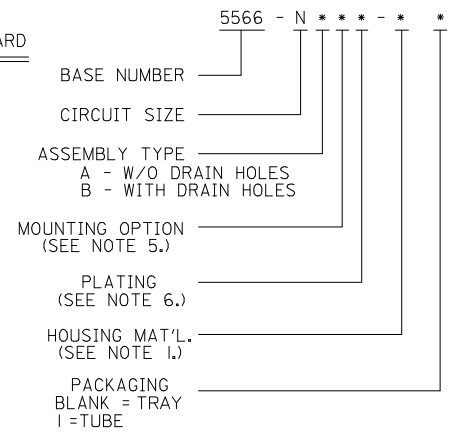
NOTES:

- 1) HOUSING MATERIAL:
"BLANK" - NYLON 6/6, U.L. 94V-2, COLOR: NATURAL.
210 - NYLON 6/6, U.L. 94V-0, COLOR: NATURAL.
BL - NYLON 6/6, U.L. 94V-2, COLOR: DYED BLACK.
- 2) TERMINAL MATERIAL: BRASS ALLOY 260
- 3) PART MATES WITH MINI-FIT JR. RECEPTACLE #5557.
- 4) PACKAGING: SEE CHARTS
- 5) MOUNTING OPTIONS:
"BLANK" - NO MOUNTING (SEE SD-5566-NA AND -NB SERIES DWGS.)
2 - PEG MOUNT
- 6) TERMINAL PLATING:
"BLANK" - .000035/(.00090) MIN. TIN OVER .000020/(.00050) MIN. COPPER.
*GS - .000030/(.00076) MIN. SELECT GOLD .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.
*GS2 - .000015/(.00038) MIN. SELECT GOLD AND .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.
S - .000100/(.00254) MIN. TIN OVER .000050/(.00127) MIN. NICKEL.
- *THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC."
*CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING.
- 7) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: SEE PS-5556-001
- 8) ANTI-SHINGLING RIB MAY OR MAY NOT APPEAR ON HOUSINGS.
- 9) CONNECTORS ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
- 10) PARTS ARE NOT DESIGNED FOR CURRENT SHARING.



RECOMMENDED HOLE LAYOUT FOR .070/(1.78) MAX. THICK P. C. BOARD
VIEWED FROM COMPONENT SIDE

LEGEND:



REVISED NOTES 8 EC NO: UCP2009-1336 DRAWN: KLOSTERMEIER 2008/11/24 CHKD: JEBELL 2008/11/24 APPR: F. SMITH 2008/11/24 R2	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	SHEET NO. 1 OF 4
				mm	INCH	DRAWN BY R.J.F.	DATE 8/19/87	TITLE MINI-FIT JR. VERTICAL HEADER ASSEMBLIES WITH MOUNTING PEGS		
			4 PLACES	± .---	± .---	CHECKED BY G.T.	DATE 8/19/87			
			3 PLACES	± .---	± .015	APPROVED BY RAS		DATE 8/19/87	MOLEX INCORPORATED	
			2 PLACES	± 0.38	± .015	MATERIAL NO. SEE SHTS 2-4		DOCUMENT NO. SDA-5566-N*2*-*		
			1 PLACE	± 0.38	± .---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

	13		12		11		10		9		8		7		6		5		4		3		2		1			
J	PLATING:		35 M.I. TIN				PLATING:		35 M.I. TIN				PLATING:		30 M.I. GOLD				PLATING:		30 M.I. GOLD							
	DRAIN HOLES:		WITHOUT DRAIN HOLES				DRAIN HOLES:		WITHOUT DRAIN HOLES				DRAIN HOLES:		WITHOUT DRAIN HOLES				DRAIN HOLES:		WITHOUT DRAIN HOLES							
	MTG. OPTION:		WITH PEGS				MTG. OPTION:		WITH PEGS				MTG. OPTION:		WITH PEGS				MTG. OPTION:		WITH PEGS							
	HOUSING MAT'L:		NYLON 6/6 94V-2 NATURAL				HOUSING MAT'L:		NYLON 6/6 94V-0 NATURAL				HOUSING MAT'L:		NYLON 6/6 94V-2 NATURAL				HOUSING MAT'L:		NYLON 6/6 94V-0 NATURAL							
	PACKAGING:		TRAY				PACKAGING:		TRAY				PACKAGING:		TRAY				PACKAGING:		TRAY							
I	PART NO.	ENG NO.	CKTS		PART NO.	ENG NO.	CKTS		PART NO.	ENG NO.	CKTS		PART NO.	ENG NO.	CKTS		PART NO.	ENG NO.	CKTS		PART NO.	ENG NO.	CKTS					
	39-29-9023	5566 -02A2	2		39-29-9027	5566 -02A2-210	2		39-29-9025	5566 -02A2GS	2		39-29-9029	5566 -02A2GS-210	2		39-29-9049	5566 -04A2GS-210	4		39-29-9069	5566 -06A2GS-210	6					
	39-29-9043	5566 -04A2	4		39-29-9047	5566 -04A2-210	4		39-29-9045	5566 -04A2GS	4		39-29-9049	5566 -04A2GS-210	4		39-29-9069	5566 -06A2GS-210	6		39-29-9089	5566 -08A2GS-210	8					
	39-29-9063	5566 -06A2	6		39-29-9067	5566 -06A2-210	6		39-29-9065	5566 -06A2GS	6		39-29-9069	5566 -06A2GS-210	6		39-29-9089	5566 -08A2GS-210	8		39-29-9109	5566 -10A2GS-210	10					
	39-29-9083	5566 -08A2	8		39-29-9087	5566 -08A2-210	8		39-29-9085	5566 -08A2GS	8		39-29-9089	5566 -08A2GS-210	8		39-29-9109	5566 -10A2GS-210	10		39-29-9129	5566 -12A2GS-210	12					
H	39-29-9103	5566 -10A2	10		39-29-9107	5566 -10A2-210	10		39-29-9105	5566 -10A2GS	10		39-29-9109	5566 -10A2GS-210	10		39-29-9149	5566 -14A2GS-210	14		39-29-9169	5566 -16A2GS-210	16					
	39-29-9123	5566 -12A2	12		39-29-9127	5566 -12A2-210	12		39-29-9125	5566 -12A2GS	12		39-29-9129	5566 -12A2GS-210	12		39-29-9149	5566 -14A2GS-210	14		39-29-9169	5566 -16A2GS-210	16					
	39-29-9143	5566 -14A2	14		39-29-9147	5566 -14A2-210	14		39-29-9145	5566 -14A2GS	14		39-29-9149	5566 -14A2GS-210	14		39-29-9189	5566 -18A2GS-210	18		39-29-9189	5566 -18A2GS-210	18					
	39-29-9163	5566 -16A2	16		39-29-9167	5566 -16A2-210	16		39-29-9165	5566 -16A2GS	16		39-29-9169	5566 -16A2GS-210	16		39-29-9189	5566 -18A2GS-210	18		39-29-9209	5566 -20A2GS-210	20					
	39-29-9183	5566 -18A2	18		39-29-9187	5566 -18A2-210	18		39-29-9185	5566 -18A2GS	18		39-29-9189	5566 -18A2GS-210	18		39-29-9209	5566 -20A2GS-210	20		39-29-9229	5566 -22A2GS-210	22					
G	39-29-9203	5566 -20A2	20		39-29-9207	5566 -20A2-210	20		39-29-9205	5566 -20A2GS	20		39-29-9209	5566 -20A2GS-210	20		39-29-9249	5566 -24A2GS-210	24		39-29-9249	5566 -24A2GS-210	24					
	39-29-9223	5566 -22A2	22		39-29-9227	5566 -22A2-210	22		39-29-9225	5566 -22A2GS	22		39-29-9229	5566 -22A2GS-210	22		39-29-9249	5566 -24A2GS-210	24		39-29-9249	5566 -24A2GS-210	24					
	39-29-9243	5566 -24A2	24		39-29-9247	5566 -24A2-210	24		39-29-9245	5566 -24A2GS	24		39-29-9249	5566 -24A2GS-210	24		39-29-9249	5566 -24A2GS-210	24		39-29-9249	5566 -24A2GS-210	24					
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F	PLATING:		35 M.I. TIN				PLATING:		35 M.I. TIN				PLATING:		30 M.I. GOLD				PLATING:		30 M.I. GOLD							
	DRAIN HOLES:		WITH DRAIN HOLES				DRAIN HOLES:		WITH DRAIN HOLES				DRAIN HOLES:		WITH DRAIN HOLES				DRAIN HOLES:		WITH DRAIN HOLES							
	MTG. OPTION:		WITH PEGS				MTG. OPTION:		WITH PEGS				MTG. OPTION:		WITH PEGS				MTG. OPTION:		WITH PEGS							
	HOUSING MAT'L:		NYLON 6/6 94V-2 NATURAL				HOUSING MAT'L:		NYLON 6/6 94V-0 NATURAL				HOUSING MAT'L:		NYLON 6/6 94V-2 NATURAL				HOUSING MAT'L:		NYLON 6/6 94V-0 NATURAL							
	PACKAGING:		TRAY				PACKAGING:		TRAY				PACKAGING:		TRAY				PACKAGING:		TRAY							
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	39-29-9022	5566 -02B2	2		39-29-9026	5566 -02B2-210	2		39-29-9024	5566 -02B2GS	2		39-28-9028	5566 -02B2GS-210	2		39-28-9048	5566 -04B2GS-210	4		39-28-9068	5566 -06B2GS-210	6					
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	39-29-9062	5566 -06B2	6		39-29-9066	5566 -06B2-210	6		39-29-9064	5566 -06B2GS	6		39-28-9068	5566 -06B2GS-210	6		39-28-9088	5566 -08B2GS-210	8		39-28-9108	5566 -10B2GS-210	10					
	39-29-9082	5566 -08B2	8		39-29-9086	5566 -08B2-210	8		39-29-9084	5566 -08B2GS	8		39-28-9088	5566 -08B2GS-210	8		39-28-9108	5566 -10B2GS-210	10		39-28-9128	5566 -12B2GS-210	12					
D	39-29-9102	5566 -10B2	10		39-29-9106	5566 -10B2-210	10		39-29-9104	5566 -10B2GS	10		39-28-9108	5566 -10B2GS-210	10		39-28-9148	5566 -14B2GS-210	14		39-28-9168	5566 -16B2GS-210	16					
	39-29-9122	5566 -12B2	12		39-29-9126	5566 -12B2-210	12		39-29-9124	5566 -12B2GS	12		39-28-9128	5566 -12B2GS-210	12		39-28-9148	5566 -14B2GS-210	14		39-28-9168	5566 -16B2GS-210	16					
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	39-29-9182	5566 -18B2	18		39-29-9186	5566 -18B2-210	18		39-29-9184	5566 -18B2GS	18		39-28-9188	5566 -18B2GS-210	18		39-28-9208	5566 -20B2GS-210	20		39-28-9228	5566 -22B2GS-210	22					
C	39-29-9202	5566 -20B2	20		39-29-9206	5566 -20B2-210	20		39-29-9204	5566 -20B2GS	20		39-28-9208	5566 -20B2GS-210	20		39-28-9248	5566 -24B2GS-210	24		39-28-9248	5566 -24B2GS-210	24					
	39-29-9222	5566 -22B2	22		39-29-9226	5566 -22B2-210	22		39-29-9224	5566 -22B2GS	22		39-28-9228	5566 -22B2GS-210	22		39-28-9248	5566 -24B2GS-210	24		39-28-9248	5566 -24B2GS-210	24					
	39-29-9242	5566 -24B2	24		39-29-9246	5566 -24B2-210	24		39-29-9244	5566 -24B2GS	24		39-28-9248	5566 -24B2GS-210	24		39-28-9248	5566 -24B2GS-210	24		39-28-9248	5566 -24B2GS-210	24					
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B																												B
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J	PLATING:		35 M.I. TIN				PLATING:		35 M.I. TIN				PLATING:		30 M.I. GOLD				PLATING:		30 M.I. GOLD						
	DRAIN HOLES:		WITHOUT DRAIN HOLES				DRAIN HOLES:		WITHOUT DRAIN HOLES				DRAIN HOLES:		WITHOUT DRAIN HOLES				DRAIN HOLES:		WITHOUT DRAIN HOLES						
	MTG. OPTION:		WITH PEGS				MTG. OPTION:		WITH PEGS				MTG. OPTION:		WITH PEGS				MTG. OPTION:		WITH PEGS						
	HOUSING MAT'L:		NYLON 6/6 94V-2 NATURAL				HOUSING MAT'L:		NYLON 6/6 94V-0 NATURAL				HOUSING MAT'L:		NYLON 6/6 94V-2 NATURAL				HOUSING MAT'L:		NYLON 6/6 94V-0 NATURAL						
	PACKAGING:		TRAY				PACKAGING:		TRAY				PACKAGING:		TRAY				PACKAGING:		TRAY						
I	PART NO.	ENG NO.	CKTS		PART NO.	ENG NO.	CKTS		PART NO.	ENG NO.	CKTS		PART NO.	ENG NO.	CKTS		PART NO.	ENG NO.	CKTS		PART NO.	ENG NO.	CKTS				
	39-29-9023	5566 -02A2	2		39-29-9027	5566 -02A2-210	2		39-29-9025	5566 -02A2GS	2		39-29-9029	5566 -02A2GS-210	2		39-29-9049	5566 -04A2GS-210	4		39-29-9069	5566 -06A2GS-210	6				
	39-29-9043	5566 -04A2	4		39-29-9047	5566 -04A2-210	4		39-29-9045	5566 -04A2GS	4		39-29-9049	5566 -04A2GS-210	4		39-29-9069	5566 -06A2GS-210	6		39-29-9089	5566 -08A2GS-210	8				
	39-29-9063	5566 -06A2	6		39-29-9067	5566 -06A2-210	6		39-29-9065	5566 -06A2GS	6		39-29-9069	5566 -06A2GS-210	6		39-29-9089	5566 -08A2GS-210	8		39-29-9109	5566 -10A2GS-210	10				
	39-29-9083	5566 -08A2	8		39-29-9087	5566 -08A2-210	8		39-29-9085	5566 -08A2GS	8		39-29-9089	5566 -08A2GS-210	8		39-29-9109	5566 -10A2GS-210	10		39-29-9129	5566 -12A2GS-210	12				
H	39-29-9103	5566 -10A2	10		39-29-9107	5566 -10A2-210	10		39-29-9105	5566 -10A2GS	10		39-29-9109	5566 -10A2GS-210	10		39-29-9149	5566 -14A2GS-210	14		39-29-9169	5566 -16A2GS-210	16				
	39-29-9123	5566 -12A2	12		39-29-9127	5566 -12A2-210	12		39-29-9125	5566 -12A2GS	12		39-29-9129	5566 -12A2GS-210	12		39-29-9149	5566 -14A2GS-210	14		39-29-9169	5566 -16A2GS-210	16				
	39-29-9143	5566 -14A2	14		39-29-9147	5566 -14A2-210	14		39-29-9145	5566 -14A2GS	14		39-29-9149	5566 -14A2GS-210	14		39-29-9189	5566 -18A2GS-210	18		39-29-9189	5566 -18A2GS-210	18				
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	39-29-9183	5566 -18A2	18		39-29-9187	5566 -18A2-210	18		39-29-9185	5566 -18A2GS	18		39-29-9189	5566 -18A2GS-210	18		39-29-9209	5566 -20A2GS-210	20		39-29-9229	5566 -22A2GS-210	22				
G	39-29-9203	5566 -20A2	20		39-29-9207	5566 -20A2-210	20		39-29-9205	5566 -20A2GS	20		39-29-9209	5566 -20A2GS-210	20		39-29-9249	5566 -24A2GS-210	24		39-29-9249	5566 -24A2GS-210	24				
	39-29-9223	5566 -22A2	22		39-29-9227	5566 -22A2-210	22		39-29-9225	5566 -22A2GS	22		39-29-9229	5566 -22A2GS-210	22</												