

1 2		3		4	
PRODUCT NUMBER		LENGTH FORMULAS (SEE NOTES 4, 5, 6 AND 10)			
51863-YYY		DIM "A" .300 [7.62] x DD + .100 [2.54] x (CCC/4) + .250 [6.35] x BB + .650 [16.51] (NOTE 10)			
SEE NOTE 1		DIM "B" .300 [7.62] x DD + .100 [2.54] x (CCC/4) + .250 [6.35] x BB + .350 [8.89]			
		DIM "C" .300 [7.62] x DD + .100 [2.54] x (CCC/4) + .250 [6.35] x BB + .300 [7.62]			
		DIM "D" .300 [7.62] x DD + .375 [9.53]			
		DIM "E" .300 [7.62] x DD + .100 [2.54] x (CCC/4) + .450 [11.43]			
		DIM "F" .300 [7.62] x DD + .100 [2.54] x (CCC/4) + .250 [6.35] x BB + .680 [17.27]			
		DIM "G" .300 [7.62] x DD + .225 [5.72]			
		DIM "H" .300 [7.62] x DD + .100 [2.54] x (CCC/4) + .250 [6.35]			

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CONNECTOR NOTES

1. PRODUCT NUMBERING CODE FOR SELECT LOAD PART NUMBERS: 51863 - Y Y Y

2. HOUSING MATERIAL: UL94 V-0 GLASS FILLED HIGH TEMP THERMOPLASTIC.
SIGNAL CONTACT MATERIAL: COPPER ALLOY
POWER CONTACT MATERIAL: COPPER ALLOY

3. PLATING OPTION:
SIGNAL CONTACTS: 30u" / 0.76u OVER 50u" / 1.27u Ni
POWER CONTACTS: 50u" / 1.27u Ni UNDER ALL; WITH 30u" / 0.76u" Au ON CONTACT AREA AND SnPb ON PCB INTERFACE

4. RIGHT END POWER CONTACT, 01 TO 19 AVAILABLE. MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR. SPECIFIED AS "BB" ON LENGTH FORMULAS

5. SIGNAL CONTACTS, 004 TO 148 AVAILABLE. SPECIFIED AS "CCC" ON LENGTH FORMULAS

6. LEFT END POWER CONTACTS, 01 TO 19 AVAILABLE. MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR. SPECIFIED AS "DD" ON LENGTH FORMULAS

7. TAIL LENGTH: 0.135 ±0.010 [3.43±0.25] SOLDER TO BOARD OR PRESS FIT

8. RETENTION TO PCB OPTIONS:
BOARD LOCK (REQUIRES Ø0.098 +0.002/-0.001 [2.49 +0.05/-0.03] THRU HOLE IN PCB).
MOUNTING FOOT THICKNESS: 0.220 [5.59]
NOT AVAILABLE WITH PRESS-FIT OR
NO RETENTION FEATURE (ALL PRESS-FIT)

9. MANUFACTURE'S NAME, P/N, AND DATE CODE TO APPEAR ON THIS SURFACE.

10. THE MAXIMUM OVERALL LENGTH (DIM A) OF A PART IS 8.00 [203.2]

11. PRODUCT SPECIFICATION GS-12-149

12. REFERENCE 51697 FOR SELECT LOAD/FMLB WORKSHEET. SEE PRODUCT SPECIFIC DRAWING 51863-YYY FOR SELECT LOAD/FMLB PRODUCT INFORMATION.

PCB NOTES:

13. ALL DIMENSIONS ARE BASIC UNLESS OTHERWISE SPECIFIED.

14. ALL THROUGH HOLES ARE LOCATED WITH A TRUE POSITION OF 0.004 [0.10]

15. ALL HOLE DIAMETERS ARE FINISHED HOLE SIZE.

16. Ø0.098 [2.49] THROUGH HOLES ARE UNPLATED

17. Ø0.0453 ±0.0010 [1.151 ±0.025] DRILLED HOLES PLATED WITH 0.0003 [0.008] MIN SnPb OVER 0.001 [0.03] TO 0.003 [0.08] Cu PLATING TO ACHIEVE A Ø0.040±0.003 [1.02±0.07] HOLE.

mat'l code		NOTE 2		tolerances unless otherwise specified		CUSTOMER		FCI ELECTRONICS	
lfr	ecr no.	dr	date	linear	angles	dr	eng	chr	appd
A				XXX-00570, XXX-0.13	0° ±2°	C. DAILY	J. ALLISON	J. ALLISON	J. ALLISON
				XXX-00201, XXX-051		03/30/01	03/30/01	03/30/01	03/30/01
sheet index	revision sheet								

Vertical RECEPTACLE #/ GUIDE PIN POWER/SIGNAL/AC POWER - SPECIALS

product family PwrBlade code 213

size dwg no A 51863 sheet 2

scale 1:1

INCH/MM

projection

COPY

www.fciconnect.com

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PRODUCT NUMBER
51863-YYY
SEE NOTE 1

CODE.	DIM "M"	DIM "T"	TAIL TYPE	CONTACT TYPE
E	N/A	0.135 [3.43]	SOLDER	SIGNAL
F	N/A	0.135 [3.43]	PRESS-FIT	SIGNAL
PA	0.042 [1.07]	0.135 [3.43]	SOLDER	POWER
PC	0.042 [1.07]	0.135 [3.43]	PRESS-FIT	POWER
PD	0.092 [2.34]	0.135 [3.43]	SOLDER	POWER
PF	0.092 [2.34]	0.135 [3.43]	PRESS-FIT	POWER
HA	N/A	N/A	N/A	HOLD-DOWN
X	OMITTED	OMITTED	OMITTED	OMITTED

A

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mat'l code		NOTE 2		tolerances unless otherwise specified		CUSTOMER		ELECTRONICS	
lir	ecm no.	dr	date	linear	.XX±.01/0.X±0.3	COPY		www.fciconnect.com	
A				angles	.XXX±.005/0.XX±0.13	projection		VERTICAL RECEPTACLE w/ GUIDE PIN	
					.XXX±.002/0.XXX±.051	INCH/MM		POWER/SIGNAL/AC POWER - SPECIALS	
					0° ± 2°	scale		product family	
					C. DAILY 03/30/01	1:1		PwrBlade	
					J. ALLISON 03/30/01			code	
					J. ALLISON 03/30/01			size	
					J. ALLISON 03/30/01			dwg no	
					J. ALLISON 03/30/01			A	
sheet index	revision	sheet						51863	
								sheet	
								2 3	
								4	
						Pro/E		code code	
						3		22526	
								4	

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