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Part Number: 0878321421

Status: Active Overview: milligrid

2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, Shrouded, Lead-**Description:** 

free, 14 Circuits, 0.76µm (30µ") Gold (Au) Plating, with Locking Windows and Center

Polarization Slot, PCB Locator, Tube

**Documents:** 

3D Model Product Specification PS-87831-027 (PDF) Drawing (PDF) RoHS Certificate of Compliance (PDF)

**Agency Certification** 

CSA LR19980 UL E29179

General

**PCB Headers Product Family** Series 87832 Wire-to-Board Application

Without Cap; Contact Molex for application in Comments automotive industry

75

Overview milligrid **Product Name** Milli-Grid™

**Physical** 

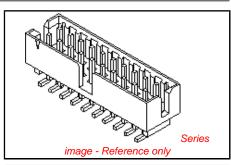
Breakaway No Circuits (Loaded) 14 Circuits (maximum) 14 Color - Resin Black First Mate / Last Break No Flammability 94V-0 Glow-Wire Compliant No Guide to Mating Part No Keying to Mating Part Yes Lock to Mating Part

Material - Metal Phosphor Bronze

Material - Plating Mating Gold Material - Plating Termination Tin Material - Resin Nylon Number of Rows Orientation Vertical **PCB** Locator Yes **PCB** Retention None Packaging Type Tube Pitch - Mating Interface (in) 0.079 In Pitch - Mating Interface (mm) 2.00 mm Pitch - Term. Interface (in) 0.079 In Pitch - Term. Interface (mm) 2.00 mm Plating min: Mating (µin) 30 Plating min: Mating (µm) 0.76

Plating min: Termination (µm) 1.88 Polarized to Mating Part Side Slots (2)

Polarized to PCB No Shrouded Fully Stackable No



China RoHS

**EU RoHS ELV and RoHS** Compliant **REACH SVHC** Contains SVHC: No Halogen-Free

**Status** Not Halogen-Free

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 87832 Series

**Mates With** 

50394 Wire-to-Board Terminals. 51110 Wire-to-Board Crimp Housing. 87568 Wireto-Board IDT Housings. 79107 Board-to-Board Top Entry Through Hole Receptacle. 79108 Board-to-Board FFC/FPC Top Entry Through Hole Receptacle. L

Plating min: Termination (µin)

Temperature Range - Operating -55°C to +105°C Termination Interface: Style Surface Mount

**Electrical** 

Current - Maximum per Contact 2A Voltage - Maximum 125V

**Solder Process Data** 

10

Duration at Max. Process Temperature (seconds) Lead-free Process Capability Reflow Capable (SMT only)

Max. Cycles at Max. Process Temperature 260 Process Temperature max. C

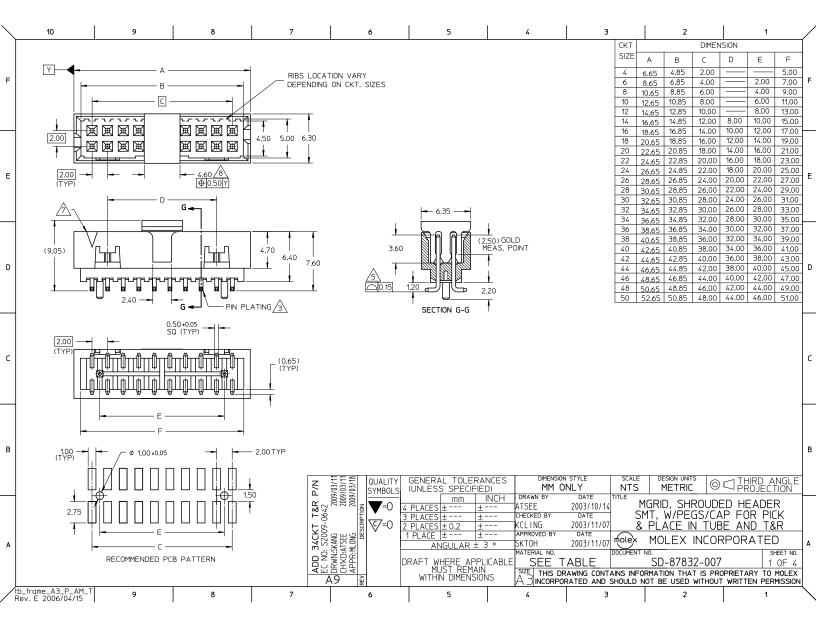
**Material Info** 

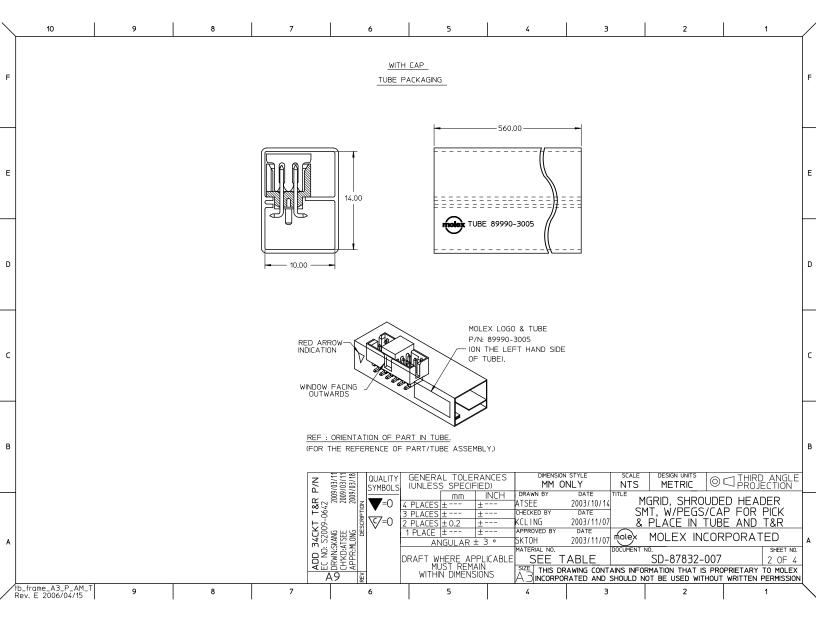
**Reference - Drawing Numbers** 

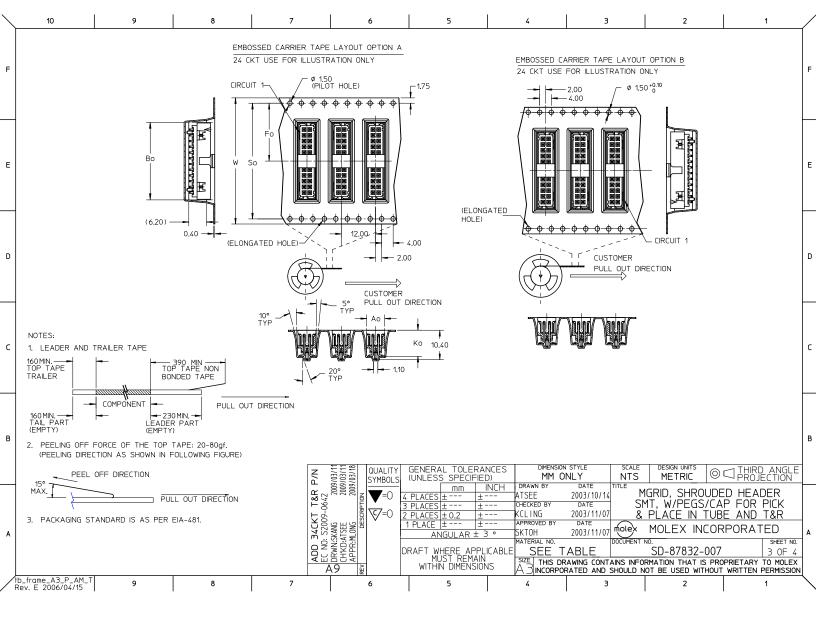
Product Specification PS-87831-027 Sales Drawing SD-87832-007

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\ 	, 10 7 0 7			/		1	D/N		· ·				DIMENSION			1 1		
						PEG	P/N W/O CAP IN TUBE	P/N W/CAP IN TUBE (SHEET 2)	P/N W/CAP TAPE & REEL (SHEET 3)	CKT SIZE	W	Fo	Bo	So	Ao	Ko	PACKAGING OPTION (SHEET 3)	
F					(	- NO	87832-0421	87832-0423	87832-5123	04	16.00	7.50	7.15	-	6.40	9.30	Α	F
				PLS REFER T	O PART	YES	87832-0621	87832-0623	87832-5223	06	24.00	11.50	9.15	-	6.40	9.30	Α	
				87832-**09 FOF LOCKING SLOT	CENTER {	YES	87832-0821	87832-0823	87832-5323	08	24.00	11.50	11.05	-	6.40	9.30	Α	l
				EOCINITA SEO	01 11014.	YES	87832-1021	87832-1023	87832-5423	10	24.00	11.50	13.05	-	6.40	9.30	Α	
					l	YES	87832-1221	87832-1223	87832-5523	12	32.00	14.20	15.15	28.40	6.40	9.30	Α	
						YES	87832-1421	87832-1423	87832-5623	14	32.00	14.20	17.05	28.40	6.40	9.30	A	l
						YES	87832-1621	87832-1623		16	32.00	14.20	19.05	28.40	6.40	9.30	A	l
Е						YES	87832-1821	87832-1823	87832-5823	18	44.00	20.20	21.05	40.40	6.40	9.30	A	E
						YES	87832-2021	87832-2023	87832-5923 87832-6023	20 22	44.00	20.20	23.05 25.05	40.40	6.40	9.30	A	l
						YES	87832-2221 87832-2421	87832-2423		24	44.00	20.20	27.05	40.40	6.40	9.30	A	l
						YES	0.000		87832-6223	26	44.00	20.20	29.05	40.40	6.40	9.30	A	l
						YES	87832-2821	87832-2823	<b>.</b>	28	56.00	26.20	31.05	52.40	6.40	9.30	A	
						YES	87832-3021	87832-3023		30	56.00	26.20	33.05	52.40	6.40	9.30	A	l
						YES	87832-3221	87832-3223		32							-	l
D						YES	87832-3421	87832-3423	87832-6623	34	56.00	26.20	37.05	52.40	6.40	9.30	A	D
						YES	87832-3621	87832-3623		36							-	l
						YES		87832-3823		38							-	l
						YES		87832-4023	87832-6923	40	56.00	26.20	43.05	52.40	6.40	9.30	Α	l
						YES	87832-4221	87832-4223		42							-	
						YES	87832-4421	87832-4423	87832-7123	44	56.00	26.20	46.80	52.40	6.40	9.30	Α	l
						YES	87832-4621	87832-4623		46							-	l
С						YES	87832-4821	87832-4823		48							-	c
						YES	87832-5021	87832-5023	87832-7423	50	72.00	34.20	53.05	68.40	6.40	9.30	А	ı
	NOTES:	1 TION DUDDOGEO	DOUT 0175 1 1 1 5 5 0 10 0 11			YES			87832-9423	10	24.00	11.50	13.05	-	6.40	9.30	В	1
	2. MATERIAL: HOUSING & 0 PIN: 0.50MM  3. PLATING: 0.1	CAP : 30% G.F., NYLON 40 SQ.PHOSPHOR BRONZE. 76um/30uin GOLD IN CONT	RCUIT SIZE WAFER IS SHC 6, UL94V-0, COLOR BLACK FACT AREA AND 1.88um/75 ER 1.27um/50uin MIN. NICKE	Suin MIN.TIN														
В	4. PRODUCT SP COPLANARITY ON A GAUGE 6. NO SIDE LOC	ECIFICATION PS-87831-02 Y IS TO BE MEASURED B	7 APPLIES. Y RESTING THE SOLDER 1 2 CKT SIZE.															В
	POSITION OF		CENTER OF DIMENSION	A'	P/N 9/03/11 9/03/18	QUAL SYMB(		L TOLERAN S SPECIFIED	)   1	TENSION ST 1M ONL	Υ.	NTS		SIGN UNITS ETRIC	0 <	J THIRI PROJ	O ANGLE ECTION	ĺ
A	9. TOP SURFAC BY VACUUM 10. THIS HEADER a) CRIMP REI WITH CRIN b) 2MM MILLI 11. NO CENTRE F		IES. 68 SERIES. CKT SIZE 4 AND 6.	K-&-PLACE	ADD 34CKT T&R P. EC NO: S2009-0642 DRWN:SKANG 2009/C CH*KD:ATSE 2009/C APPR:MLONG 2009/0	DESCRIPTION	4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm   IN ± ± ± ± ±0.2 ±	NCH DRAWN B ATSEE CHECKED I KCLING APPROVED SKTOH MATERIAL  CABLE SE	2 33Y 2 7 BY 2 NO. E TA		TITLE 4 17 DOCUMEN	MGRIC SMT, V & PLA MOL IT NO. SD-	), SHR W/PEG NCE IN LEX IN	OUDEI S/CAP TUBE NCORF	HEA FOR AND PORA	DER PICK T&R TED SHEET NO. 4 OF 4	A
					<u>∢шБ</u> 5₹	REV	WITHI	N DIMENSION:	S A SIZE TH	IIS DRAW	ING CON TED AND	TAINS INI SHOULD	ORMATIC NOT BE	ON THAT	IS PROPI	RIETARY VRITTEN	TO MOLEX PERMISSION	ĺ
	b_frame_A3_P_AM_T Rev. E 2006/04/15	9	8	7		6		5	4			3		2			1	\