

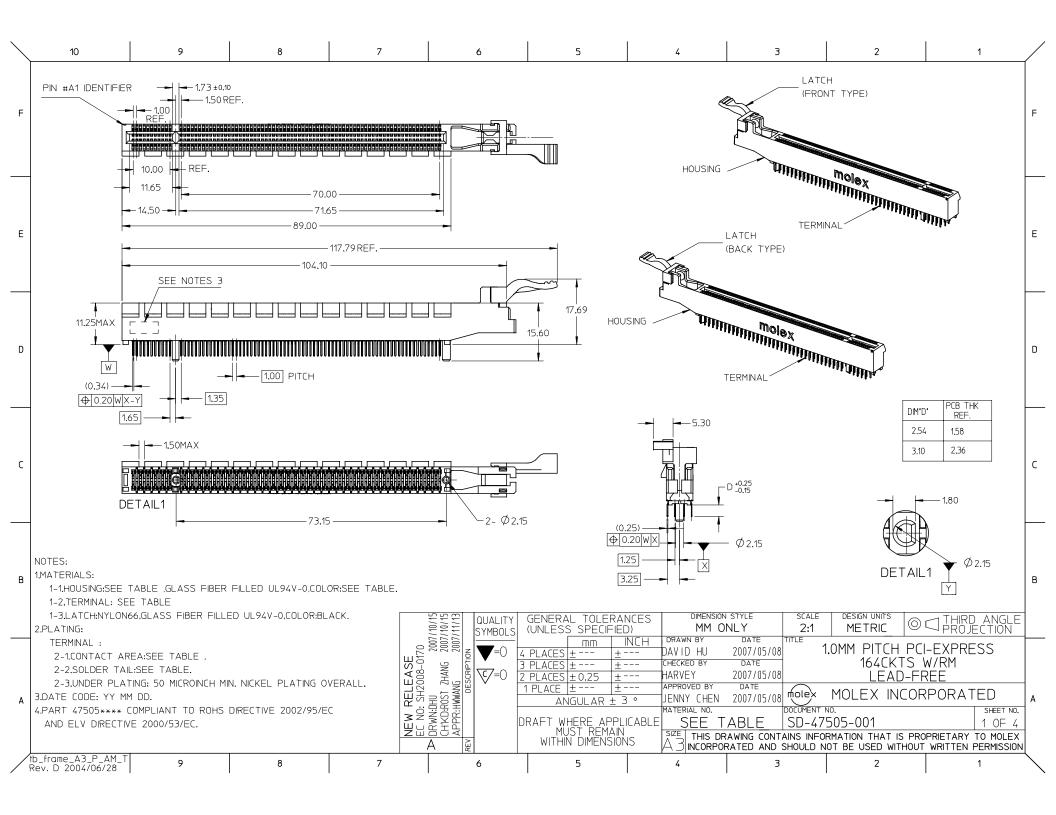
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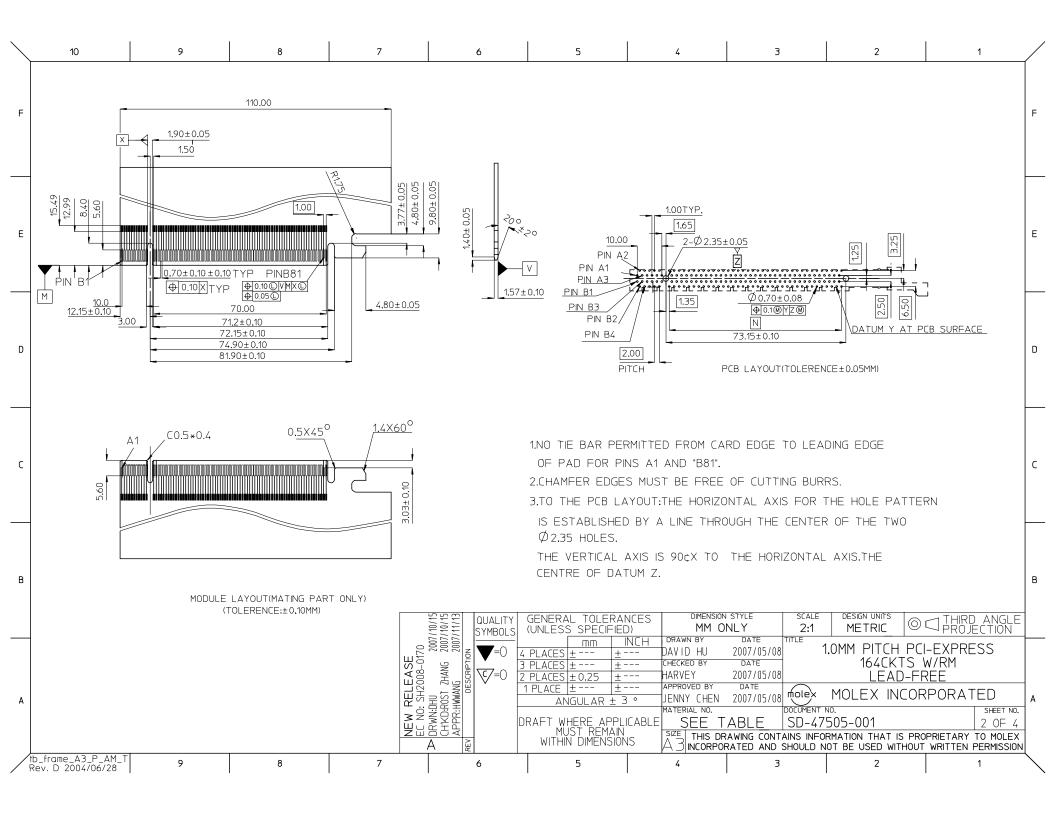
**Part Number:** 0475058302 EU RoHS **China RoHS** Status: Active **ELV and RoHS Overview:** Compliant 1.00mm (.039") Pitch, PCI Express\* Connector, 164 Circuits, Nylon 4/6 Glass-filled, **Description: REACH SVHC** Black Housing, Phosphor Bronze, 0.38µm (15µ") Gold (Au) Plating, with Plastic Pegs, Not Reviewed 2.54mm (.100") Soldertail, with Back-type Latch, Lead Free Halogen-Free Status General Not Reviewed **Product Family** Edge Card Connectors Need more information on product Series 87715 environmental compliance? With Integrated Back-type Latch Comments Email productcompliance@molex.com **Component Type** Edgecard to PCB For a multiple part number RoHS Certificate of Overview pci\_express\_card\_edge\_connector Compliance, click here Product Name PCI Express\* Please visit the Contact Us section for any Physical non-product compliance questions. Circuits (Loaded) 164 Circuits (maximum) 164 **Circuits Detail** All Signal Black Color - Resin Search Parts in this Series Durability (mating cycles max) 50 87715Series Entry Angle Vertical Keying to Mating Part Yes Material - Metal Phosphor Bronze **Mates With** Material - Plating Mating Gold PCI Express Card Material - Plating Termination Tin Material - Resin High Temperature Thermoplastic, Nylon PC Tail Length (in) 0.100 In PC Tail Length (mm) 2.54 mm PCB Locator Yes PCB Retention Yes PCB Thickness Recommended (in) 0.062 In PCB Thickness Recommended (mm) 1.58 mm Packaging Type Tray Pitch - Mating Interface (in) 0.039 In Pitch - Mating Interface (mm) 1.00 mm Pitch - Term. Interface (in) 0.039 In Pitch - Term. Interface (mm) 1.00 mm Plating min: Mating (µin) 15 Plating min: Mating (µm) 0.375 Plating min: Termination (µin) 100 Plating min: Termination (µm) 2.5 Polarized to Mating Part Yes Temperature Range - Operating -55°C to +85°C Termination Interface: Style **Through Hole** Electrical Current - Maximum per Contact 1.1A Voltage - Maximum 50V AC (RMS)/DC

## **Material Info**

## **Reference - Drawing Numbers**

Packaging Specification Product Specification Sales Drawing Test Summary PK-47505-001 PS-47505-001 SD-47505-001 TS-47505-001 This document was generated on 06/04/2010
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		MOLEX P/N	HOUSING MATERIAL	HOUSING COLOR	TERMINAL MATERIAL	CONTACT PLATING	SOLDER TAIL PLATING	SOLDER TAI "D" LENGTH	DESCRIPTION	LATCH TYPE		
F		47505-9300	_		_	GOLD FLASH	-		TOOLED			F
		47505-9302		BLACK		15 MICROINCH						
		47505-9310				GOLD FLASH						
	47505-9312		BLUE		15 MICROINCH	_	2.54		_			
	47505-9320				GOLD FLASH							
E		47505-9322	NYLON 46	(287U)	PHOSPHOR BRONZE	15 MICROINCH	1 100 MICROINCH TIN 100 VER 50 MICROINCH NICKEL OVER ALL 1		UNTOOLED	- FRONT TYPE		E
		47505-9330		GREEN (348C)		GOLD FLASH						
		47505-9332				15 MICROINCH						
		47505-9340		PURPLE (2736U)		GOLD FLASH						
D		47505-9342				15 MICROINCH						D
		47505-3303		BLACK		GOLD FLASH		3.10				
		47505-3305				15 MICROINCH						
		47505-3313		NATURAL(WHITE)		GOLD FLASH			TOOLED			
		47505-3315				15 MICROINCH						
с		47505-3323		BLUE (287U)		GOLD FLASH						с
		47505-3325				15 MICROINCH						
	47505-3333	-	GREEN	-	GOLD FLASH	-						
		47505-3335	-	(348C)	_	15 MICROINCH		U	UNTOOLED			
_		47505-3343		PURPLE (2736U)		GOLD FLASH						
В		47505-3345				15 MICROINCH						B
			1		0/15	UALITY GENER	RAL TOLERANCES	DIMENSION STYLE	SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE	-
					70 2007/1 2007/11 2007/11		mm         INCH           ES ±         ±	DRAWN BY DATE DAVID HU 2007/0	TITLE	MM PITCH PCI-E	EXPRESS	1
					ASE 008-01 HANG CRIPTIC	3 PLACE	S ± ± S ± 0.25 ±	CHECKED BY DATE HARVEY 2007/0		164CKTS W/ LEAD-FRE	'RM F	
A					RELE SH20 NHU NOST ZI NOST ZI NOST ZI DES	1 PLACE	E ± ± ANGULAR ± 3 °	APPROVED BY DATE JENNY CHEN 2007/(	15/08 molex M	OLEX INCORP	ORATED	A
					NEW RELEASE EC NO: SH2008-0170 PDRWN:DHU 2007/10/1 CHYDR0ST ZHANG 2007/10/1 APPR:HWANG 2007/11/1 N DESCRPTION			MATERIAL NO. SEE TABLE	DOCUMENT NO. 5D-4750	5-001	SHEET NO. 3 OF 4	
						WIT	WHERE APPLICABLE MUST REMAIN HIN DIMENSIONS		CONTAINS INFORMA	TION THAT IS PROPR BE USED WITHOUT W	IETARY TO MOLEX RITTEN PERMISSION	1
tb_t Rev	frame_A3_P_AM_T . D 2004/06/28	9	8	7	6		5	4	3	2	1	$\overline{\ }$

9	8	7		5	5	4	3	2	1	_/	
MOLEX P/N	HOUSING MATERIAL	HOUSING COLOR	TERMINAL MATERIAL	CONTACT PLATING	SOLDER TAIL PLATING	SOLDER TAI "D" LENGTH	DESCRIPTION	LATCH TYPE			
47505-8300	_		PHOSPHOR BRONZE	GOLD FLASH	100 MICROINCH TIN OVER 50 MICROINCH NICKEL OVER ALL	2.54	TOOLED	BACK TYPE		F	
47505-8302		BLACK		15 MICROINCH							
47505-8310				GOLD FLASH							
47505-8312				15 MICROINCH							
47505-8320		BLUE		GOLD FLASH			UNTOOLED				
47505-8322	_	(287U)		15 MICROINCH						E	
47505-8330		GREEN (348C)		GOLD FLASH							
47505-8332				15 MICROINCH							
47505-8340		PURPLE		GOLD FLASH							
47505-8342	NYLON 46	(2736U)		15 MICROINCH							
47505-4303				GOLD FLASH			TOOLED		D		
47505-4305		BLACK		15 MICROINCH							
47505-4313				GOLD FLASH					-		
47505-4315		NATURAL(WHITE)			15 MICROINCH						
47505-4323		BLUE		GOLD FLASH	-	3.10	UNTOOLED			с	
47505-4325		(287U)		15 MICROINCH							
47505-4333	-	GREEN		GOLD FLASH							
47505-4335		(348C)		15 MICROINCH							
47505-4343		PURPI F		GOLD FLASH							
47505-4345		(2736U)		15 MICROINCH						В	
			NEW RELEASE EC NO: SH2008-0170 DRWN:DHU 2007/10 CHYCD:R051 ZHANG 2007/10 APPR:HMMANG 2007/11 DESCRPTION	V=0 V=0 V=0 V=0 V=0 V=0 V=0 V=0	ESS SPECIFIED) <u>mm</u> INCH ES ± ± ES ± 0.25 ± ES ± 0.25 ± ANGULAR ± 3 ° WHERE APPLICABLE MUIST REMAIN	DAVID HU 2007/ CHECKED BY DAT HARVEY 2007/ APPROVED BY DAT JENNY CHEN 2007/ MATERIAL NO. SFF TABI	2:1 TITLE 1.0 1.0 1.0 1.0 1.0 1.0 05/08 E 05/08 E DOCUMENT NO. F	MM PITCH PCI- 164CKTS W LEAD-FR 10LEX INCORF SD-47505-001	-EXPRESS I/RM EE PORATED SHEET NO. 4 OF 4	A	
	MOLEX P/N         47505-8300         47505-8302         47505-8302         47505-8310         47505-8312         47505-8320         47505-8320         47505-8320         47505-8320         47505-8320         47505-8320         47505-8320         47505-8320         47505-8320         47505-8320         47505-8330         47505-8332         47505-4303         47505-4303         47505-4315         47505-4315         47505-4323         47505-4323         47505-4333         47505-4335         47505-4335         47505-4343	MOLEX P/N         HOUSING MATERIAL           47505-8300         47505-8302           47505-8302         47505-8310           47505-8310         47505-8312           47505-8320         47505-8322           47505-8322         47505-8330           47505-8322         47505-8332           47505-8322         47505-8332           47505-8342         NYLON 46           47505-4303         47505-4303           47505-4313         47505-4313           47505-4313         47505-4323           47505-4323         47505-4323           47505-4333         47505-4335           47505-4335         47505-4343	MOLEX P/N         HOUSING MATERIAL         HOUSING COLOR           47505-8300         8LACK           47505-8302         8LACK           47505-8302         8LACK           47505-8310         8LUE           47505-8312         8LUE           47505-8320         8LUE           47505-8322         8LUE           47505-8322         8LUE           47505-8322         8LUE           47505-8322         9URPLE           47505-8322         9URPLE           47505-8322         9URPLE           47505-8322         9URPLE           47505-4303         9URPLE           47505-4303         8LACK           47505-4313         9URPLE           47505-4313         8LUE           47505-4323         8LUE           47505-4323         9URPLE           47505-4333         3GREEN           47505-4333         9URPLE           47505-4343         9URPLE           47505-4343         9URPLE           47505-4343         9URPLE           47505-4345         9URPLE	MOLEX P/N         HOUSING MATERIAL         HOUSING COLOR         TERMINAL MATERIAL           47505-8300         BLACK         ATERNIAL           47505-8302         BLACK         ATERNIAL           47505-8302         BLACK         BLUE (287U)         BLUE (287U)           47505-8320         BLUE (287U)         BLUE (287U)         PHOSPHOR BRONZE           47505-8320         PURPLE (2736L)         PHOSPHOR BRONZE         PHOSPHOR BRONZE           47505-8320         NYLON 46         BLACK         PHOSPHOR BRONZE           47505-8340         PURPLE (2736L)         PHOSPHOR BRONZE         PHOSPHOR BRONZE           47505-4303         NYLON 46         BLACK         BLUE (287U)         PHOSPHOR BRONZE           47505-4313         ATURAL(WHITE)         BLUE (287U)         PHOSPHOR BRONZE           47505-4323         BLUE (287U)         BLUE (287U)         BLUE (287U)           47505-4333         GREEN (348C)         GREEN (348C)         BLUE (2736U)           47505-4333         PURPLE (2736U)         MATURAL (WHITE)           47505-4345         YOUNDER         BLUE (2736U)         MATURAL (WHITE)	MOLEX P/N         HOUSING MATERIAL         HOUSING COLOR         TERMINAL MATERIAL         CONTACT PLATING           47505-8300         BLACK         BLACK         GOLD FLASH         GOLD FLASH           47505-8302         NATURAL(WHITE)         BLUE (287U)         GOLD FLASH         15 MICROINCH           47505-8320         BLUE (287U)         GOLD FLASH         15 MICROINCH         GOLD FLASH           47505-8320         BLUE (287U)         GOLD FLASH         15 MICROINCH         GOLD FLASH           47505-8320         BLUE (2736U)         PURPLE (2736U)         PHOSPHOR BRONZE         GOLD FLASH           47505-8320         NYLON 46         BLACK         FMOROINCH GOLD FLASH         15 MICROINCH           47505-4303         NYLON 46         BLACK         GOLD FLASH         15 MICROINCH           47505-4303         NYLON 46         BLUE (287U)         15 MICROINCH         GOLD FLASH           47505-4313         NATURAL(WHITE)         BLUE (287U)         15 MICROINCH         GOLD FLASH           47505-4323         GREEN (348C)         GOLD FLASH         15 MICROINCH         GOLD FLASH           47505-4343         PURPLE (2736U)         GOLD FLASH         15 MICROINCH         GOLD FLASH           47505-4345         PURPLE (2736U)         GO	MOLEX P/N         HOUSING MATERIAL         HOUSING COLOR         TERMINAL MATERIAL         CONTACT PLATING         SOLDER TAL PLATING           47505-8300         BLACK         GOLD FLASH         SOLDER TAL PLATING         SOLDER TAL PLATING           47505-8300         BLACK         GOLD FLASH         SMCROINCH         GOLD FLASH           47505-8320         BLUE (287U)         GOLD FLASH         IS MCROINCH         GOLD FLASH           47505-8320         BLUE (287U)         GREEN (348C)         IS MCROINCH         GOLD FLASH           47505-8320         PURPLE (2736U)         IS MCROINCH         GOLD FLASH         IS MCROINCH           47505-4303         NYLON 46         BLACK         BLUE (287U)         IS MCROINCH         GOLD FLASH           47505-4313         NYLON 46         BLACK         BLUE (287U)         IS MCROINCH         IS MCROINCH           47505-4313         NATURAL(WHITE)         BLUE (287U)         IS MCROINCH         IS MCROINCH         IS MCROINCH           47505-4313         REEEN (348C)         IS MCROINCH         IS MCROINCH         IS MCROINCH         IS MCROINCH           47505-4323         BLUE (287U)         IS MCROINCH         IS MCROINCH         IS MCROINCH           47505-4325         IS MCROINCH         IS MCROINCH	MOLEX P/N         HOUSING MATERIAL         HOUSING COLOR         TERMINAL MATERIAL         CONTACT PLATING         SOLDER TAL PLATING         SOLDER TAL PLATING	MOLEX P/N         HOUSING MATERIAL         HOUSING COLOR         TERMAL MATERIAL         CONTACT PLATING         SOLDER TAIL PLATING         SOLDER TAIL PLATING         DESCRPTION           47505-8302         BLACK         BLACK         MATERIAL         CONTACT PLATING         SOLDER TAIL PLATING         OLINER TAIL PLATING         DESCRPTION           47505-8302         BLACK         BLACK         BLACK         GOLD FLASH         TOOLED           47505-8312         BLUE (207U)         BLUE (207U)         GOLD FLASH         TOOLED         2.54           47505-8322         BLUE (207U)         GREEN (326U)         FMCRONCH BRONZE         TO MCRONCH TN OVER         TO MCRONCH TN OVER         TO MCRONCH TN OVER           47505-8320         MATURALIWHTED         BLACK         BRONZE         TO MCRONCH TN OVER         TO MCRONCH TN OVER         TO MCRONCH TN OVER           47505-4303         NYLON 46         BLACK         BRONZE         SMCRONCH GOLD FLASH         SMCRONCH SMCRONCH         TO MCRONCH TN OVER         TO DLED           47505-4303         NATURALIWHTED         BLUE (287U)         BLUE (287U)         SMCRONCH SMCRONCH         SMCRONCH SMCRONCH         SMCRONCH SMCRONCH         SMCRONCH SMCRONCH         SMCRONCH SMCRONCH         SMCRONCH SMCRONCH         SMCRONCH SMCRONCH         SMCRONCH SMCRONCH         SMCRONCH SMC	MOLEX PNN         HOUSING MATERIAL         HOUSING COLOR         TERMINAL MATERIAL         CONTACT PLATING         SOLDER TAL PLATING         SOLDER TAL TO LENGTH         DESCRPTION         LATCH TYPE           47505-8302         BLACK         BLACK         BLACK         COLD FLASH         TOULED         TOULED           47505-8302         BLUE (27505-8302         BLUE (27505-8302         BLUE (27505-8302         BLUE (27505-8302         TOULED         TOULED         TOULED           47505-8302         BLUE (27505-8302         BLUE (27505-8302         BLUE (27505-8302         BLUE (27505-4303         BLUE (27505-4303         BLUE (27505-4303         TOULED         TOULED         BACK TYPE           47505-4303         MATURAL(WHTE)         BLUE (27505-4303         BLUE (27505-4303         BLUE (27505-4303         BLUE (27505-4303         BLUE (27505-4303         TOULED         BACK TYPE           47505-4303         MATURAL(WHTE)         BLUE (27505-4303         BLUE (27505-4303         BLUE (27505-4303         TOULED         TOULED           47505-4303         MATURAL(WHTE)         BLUE (27505-4303         BLUE (27505-4303         SMCRONCH         SMCRONCH         SMCRONCH           47505-4303         BLUE (27505-4303         BLUE (27505-4303         BLUE (27505-4303         BLUE (27505-4303         SMCRONCH	MOLEX P/N         HOUSING PATERIAL         HOUSING COLOR         TERMINAL HATERIAL         CONTACT PLATING         SOLDER TAL D'LATING         DESCRPTION         LATCH TYPE           47203-9300         BLACK         BLACK         SOLD FLASH 15 PCRONCH 22505-6312         0 LENGTH         DESCRPTION         LATCH TYPE           47505-8302         NATURAL/XHITED 127505-6312         NATURAL/XHITED 127500-0310         NATURAL/XHITED 127500-0310         NATURAL/XHITED 127500-0310         NATURAL/XHITED 13 PCRONCH 13 PCRONCH 13 PCRONCH 13 PCRONCH 15 PCRONCH 15 PCRONCH 15 PCRONCH 15 PCRONCH 15 PCRONCH 27505-6322         NULL         DATURAL/XHITED 15 PCRONCH 15 PCRONC	