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Part Number: [0015473101](#)
Status: **Active**
Description: 1.27mm (.050") Pitch MX-50™ Slimline Ribbon Cable Connector, Feed-Through Version Preloaded Upper Housing, 10 Circuits

Documents:
[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	Ribbon Cable / Wire Trap Connectors
Series	70121
Comments	Feed-Through
Component Type	Housing
Glow-Wire Compliant	No
Product Name	MX-50™

Physical

Circuits (Loaded)	10
Entry Angle	90° Angle
Flammability	94V-0
Lock to Mating Part	Yes
Number of Rows	2
PCB Retention	None
Packaging Type	Tube
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Polarized to Mating Part	Yes
Stackable	No
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	-40°C to +105°C
Wire Insulation Diameter	1.14mm (.045") max.
Wire Size AWG	26, 28
Wire/Cable Type	Ribbon Cable

Electrical

Current - Maximum per Contact	1A
Voltage - Maximum	125V

Material Info

Old Part Number	70121-4001
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EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
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
[70121Series](#)

Mates With
[8624](#) , [70203](#)

Use With
[6800](#) Tinned Molex cable (28 AWG), [40158](#) Topcoat Molex Cable (28 AWG), [8863](#) Tinned Molex Cable (26 AWG)

13 12 11 10 9 8 7 6 70121 4 3 2 1

J

I

H

G

F

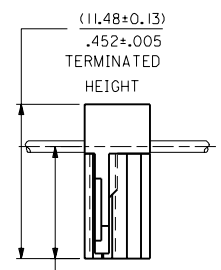
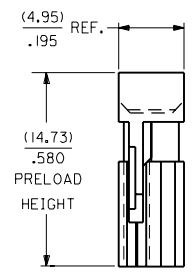
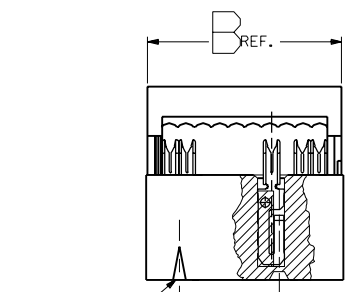
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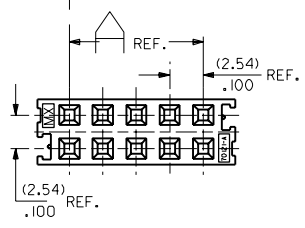
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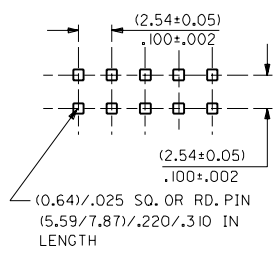


CIRCUIT #1
IDENTIFIER



NOTES

1. 10 CKT. SIZE SHOWN FOR ILLUSTRATION PURPOSES.
2. FOR USE WITH AWG #26 AND #28 STRANDED WIRE (1.14)/.045 MAX. DIAMETER INSULATION RIBBON CABLE WITH (1.27)/.050 C.
3. MATERIALS:
HOUSING, UPPER AND LOWER ARE POLYESTER G.F., 94V-0. COLOR-BLACK
TERMINAL-(0.25)/.010 THICK BERYLLIUM COPPER ALLOY 165, 1/4H.M.
PLATING: SEE SHEET 2
4. PRODUCT SPECIFICATION 70121-**** APPLIES.



RECOMMENDED P.C.B. PIN-OUT

DIMENSIONS

B	A	CKT. SIZE
(9.91) .390	(5.08) .200	6
(12.45) .490	(7.62) .300	8
(14.99) .590	(10.16) .400	10
(17.53) .690	(12.70) .500	12
(20.07) .790	(15.24) .600	14
(22.61) .890	(17.78) .700	16
(25.15) .990	(20.32) .800	18
(27.69) 1.090	(22.86) .900	20
(30.23) 1.190	(25.40) 1.000	22
(32.77) 1.290	(27.94) 1.100	24
(35.31) 1.390	(30.48) 1.200	26
(40.39) 1.590	(35.56) 1.400	30
(45.47) 1.790	(40.64) 1.600	34
(48.01) 1.890	(43.18) 1.700	36
(53.09) 2.090	(48.26) 1.900	40
(65.79) 2.590	(60.96) 2.400	50
(78.49) 3.090	(73.66) 2.900	60
(83.57) 3.290	(78.74) 3.100	64

G	REMOVED TAPE PACK PER UDT2000-0214 J.LONG 99/08/25
F2	ADD 22 CKT EDP'S PER ECR # U80906 ELO 97/09/25
F1	ADDED 22 CKT EDP PER ECR # U80278 MCGRATH 97/07/09
F	CHANGED MATERIAL PER ECR # U51214 95/06/06 CAC
E1	ADDED EDP NOS. PER U31793 93/12/09 RB
E	REVISED PER U30209 93/05/06 RB
D9	CHG 12 CKT EDP PER U30679 93/05/05 RB
D8	ADDED 18 CKT EDP PER U20535 92/04/03 RB
D7	ADDED 18 CKT. PER U20361 92/03/06 RB
D6	ADDED 12 CIRCUIT PER U10987 91/05/23 RB
D5	ADDED EDP NO. PER ERO #29612 90/03/15 RB
D4	ADDED EDP NO. PER ERO # 29170 11-10-89 BRINKMAN
D3	ADDED EDP NO. PER ERO # 28471 5-31-89 BRINKMAN
D2	ADDED 22 CKT. PER ERO # 27506 11-15-88 BRINKMAN
D1	ADDED EDP NO. PER ERO # 26522 5/11/88 BRINKMAN
D	REVISED PER ECR # U81169 4/20/88 BRINKMAN
C	ADDED PKG. NOTE PER ECR # U80067 01/25/88 DB/JL
B	REVISED PER ECR # 10643 11/19/87 BRINKMAN
A1	REDRAWN ON CAD ERO #22205 4/24/86 WJF/RB

DIMENSIONS SHOWN (METRIC) INCH		UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°		TITLE		SALES ASSEMBLY 1DT RIBBON CABLE CONNECTOR STACKABLE IN X-Y PLANES (CABLE FEED THROUGH)		SHEET NO. 1 OF 2		DATE 8 / 1 / 86	
INCH		METRIC		PART NO.		MOLEX INCORPORATED		DRWG. NO.		SDA-70121-4***	
3 PLACE ± .010		---		L15LJLL		60532		U.S.A.		REV.	
2 PLACE ± .014		± 0.25		FILE NAME		S701214X1		REV.		SIZE	
1 PLACE ---		± 0.35		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SCALE		4 : 1		TC	
DRWG. BY WJF		CHKD. BY D B		APP'D. BY		SCALE		4 : 1		TC	

	I3	I2	I1	I0	9	8	7	6	70121	4	3	2	I
J	STANDARD PACKAGING IN TUBES FOR TUBE FED TERMINATION EQUIP. PER PK-70873-0056 (85-22-0056)												
	SEE PLATING NOTE (571)		SEE PLATING NOTE (574)		SEE PLATING NOTE (164)		SEE PLATING NOTE ()		SEE PLATING NOTE ()				
	CKT. SIZE	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.		
	6	I5-47-306 I	A-70 I2 I-4040	I5-47-3062	A-70 I2 I-405 I	I5-47-3065	A-70 I2 I-406 I						
	8	I5-47-308 I	A-70 I2 I-404 I	I5-47-3082	A-70 I2 I-4052	I5-47-3085	A-70 I2 I-4062						
I	10	I5-47-3 I0 I	A-70 I2 I-400 I	I5-47-3 I02	A-70 I2 I-40 I4	I5-47-3 I05	A-70 I2 I-4027						
	12	I5-47-3 I20	A-70 I2 I-4043	I5-47-3 I22	A-70 I2 I-4054	I5-47-3 I25	A-70 I2 I-4065						
	14	I5-47-3 I4 I	A-70 I2 I-4002	I5-47-3 I42	A-70 I2 I-40 I5	I5-47-3 I45	A-70 I2 I-4028						
	16	I5-47-3 I6 I	A-70 I2 I-4003	I5-47-3 I62	A-70 I2 I-40 I6	I5-47-3 I65	A-70 I2 I-4029						
	18	I5-47-3 I8 I	A-70 I2 I-4044	I5-47-3 I82	A-70 I2 I-4055	I5-47-3 I85	A-70 I2 I-4066						
	20	I5-47-320 I	A-70 I2 I-4004	I5-47-3202	A-70 I2 I-40 I7	I5-47-3205	A-70 I2 I-4030						
H	22	I5-47-322 I	A-70 I2 I-4042	I5-47-3222	A-70 I2 I-4053	I5-47-3225	A-70 I2 I-4064						
	24	I5-47-324 I	A-70 I2 I-4005	I5-47-3242	A-70 I2 I-40 I8	I5-47-3245	A-70 I2 I-403 I						
	26	I5-47-326 I	A-70 I2 I-4006	I5-47-3262	A-70 I2 I-40 I9	I5-47-3265	A-70 I2 I-4032						
	30	I5-47-330 I	A-70 I2 I-4007	I5-47-3302	A-70 I2 I-4020	I5-47-3305	A-70 I2 I-4033						
	34	I5-47-334 I	A-70 I2 I-4008	I5-47-3342	A-70 I2 I-402 I	I5-47-3345	A-70 I2 I-4034						
	36	I5-47-336 I	A-70 I2 I-4009	I5-47-3362	A-70 I2 I-4022	I5-47-3365	A-70 I2 I-4035						
G	40	I5-47-340 I	A-70 I2 I-40 I0	I5-47-3402	A-70 I2 I-4023	I5-47-3405	A-70 I2 I-4036						
	50	I5-47-350 I	A-70 I2 I-40 I I	I5-47-3502	A-70 I2 I-4024	I5-47-3505	A-70 I2 I-4037						
	60	I5-47-360 I	A-70 I2 I-40 I2	I5-47-3602	A-70 I2 I-4025	I5-47-3605	A-70 I2 I-4038						
	64	I5-47-364 I	A-70 I2 I-40 I3	I5-47-3642	A-70 I2 I-4026	I5-47-3645	A-70 I2 I-4039						
F													
E													
D													
C													
B	PLATING CODES												
	574 - .000030 MIN. GOLD PLATE IN SELECTED AREA AN .000075 MIN. TIN/LEAD IN SELECTED AREA OVER NICKEL OVERALL												
	571 - .000015 MIN. GOLD PLATE IN SELECTED AREA AN .000075 MIN. TIN/LEAD IN SELECTED AREA OVER NICKEL OVERALL												
A	164 - .000150 MIN. TIN/LEAD OVER NICKEL OVERALL.												
	I3	I2	I1	I0	9	8	7	6	5	4	3	2	I

G	SEE SHEET I
F2	SEE SHEET I
F1	SEE SHEET I
E1	SEE SHEET I
E	SEE SHEET I
D9	SEE SHEET I
D8	SEE SHEET I
D7	SEE SHEET I
D6	SEE SHEET I
D5	SEE SHEET I
D4	SEE SHEET I

MFG.	SH.	REV.	LTR.	REVISIONS
▽ = 0	▼ = 0	REVISE ONLY ON CAD SYSTEM		

DIMENSIONS SHOWN (METRIC) INCH	
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°	
3 PLACE	± .010 ---
2 PLACE	± .014 ± 0.25
1 PLACE	--- ± 0.35

DRAWING: WJF		CHK'D. BY	
APP'D. BY		SCALE: 4 : 1	

FILE NAME: S70121AK2.DGN		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
DATE: 8 / 1 /86		DIV: DA	

SALES ASSEMBLY 1DT RIBBON CABLE CONNECTOR STACKABLE IN X-Y PLANES (CABLE FEED THROUGH)	
MOLEX INCORPORATED U.S.A.	
PART NO. 60532	
DRAWING NO. SDA-70121-4***	