

User Registration

Register today to create your account on Silabs.com. Your personalized profile allows you to receive technical document updates, new product announcements, "how-to" and design documents, product change notices (PCN) and other valuable content available only to registered users. http://www.silabs.com/profile

PCN Date: 12/7/2012				Effective Date: 3/12/2013		
	Title: Adding test and shipping site, with different tape & reel material (lokreel, cover tape and carrier tape) for EM357					
Originat	or: KF Lee	Phon	e: 65 6511 6428		Dept: SM/QA	
Custome	er Contact: k	Kathy Haggar	Phon	e: 1-512-532-526	1	Dept: Sales
PCN Typ	PCN Type:					
□ Data	sheet	☐ Four	ndry		\boxtimes	Packing
☐ Prod	luct Revision	☐ Asse	embly \square			Labeling
☐ Disc	ontinuance	⊠ Test				Other
Last Ord	ler Date: No	t Applicable				
			PCN	l Details		
to the cu	Silicon Labs is adding ASE Chung Li, Taiwan (ASECL) as a test and shipping site for EM357 in addition to the current site; STATS Chippac Malaysia (SCM). As a result, Silicon Labs is required to use different packing materials (lokreel, cover tape & carrier tape) for EM357 as per the description below;					
SCM			ASECL	_		
	Package 48QFN 7X7	Carrier Tape part #		rier Tape part #		
48QFN 7X7 R021-0700X BD0700X07003						
_	SCM		ASECL			
Package		Lokreel part #	I	_okreel part #		
	48QFN 7X7	R021-1462X		43000051P1		
	SCM		ASECL			
	Package	Cover tape part #	Co	ver tape part #		
	48QFN 7X7 R021-0114B CP99-133A					
,	Refer to Appendix A for carrier tape comparison on 48QFN 7X7. Appendix B for cover tape comparison on 48QFN 7X7. Appendix C for lokreel comparison on 48QFN 7X7.					
The new	Reason for Change: The new test location will use existing qualified packing materials at ASECL for lokreel, cover tape & carrier tape.					

Impact on Form, Fit, Function, Quality, Reliability:

There is no impact to form, fit, function, quality or reliability of the product. The packing material does change as described in attached Appendices.

Product Identification:

The following part numbers are affected by this transition

Part number	Package		
EM357-RTR	48QFN 7X7		

Last Date of Unchanged Product: Not Applicable

Qualification Samples:

Mechanical samples in new packing materials are available upon request.

Samples of parts tested at the new site are also available upon request.

Please contact your Silicon Labs Sales Representative. A list of Silicon Labs Sales Representatives is available at www.silabs.com

Customer Early Acceptance Sign Off:

Customers may approve early PCN acceptance by completing the information below:

Early Acceptance: Date:

Name: ______
Company:

Email your early Acceptance approval to: katherine.haggar@silabs.com

Qualification Data:

Table 1 below sets out the qualification tests being carried out by Silicon Labs at ASECL to ensure that the testing of EM357 parts at ASECL achieves the same rigorous standard of testing currently applied at SCM. When this work is complete, Silicon Labs will prepare a report summarizing the results of qualification and these results can be made available to customers on request.

Table 1: Qualification Tests for the EM35x Device Family

Qualification	Test Golden	Test Known Good	Test Rejected	Test Qualification
Tests	Units	Correlation Units	Correlation Units	Lot(s)
Passing Criteria	All Must Pass	All Must Pass	All Must Fail	

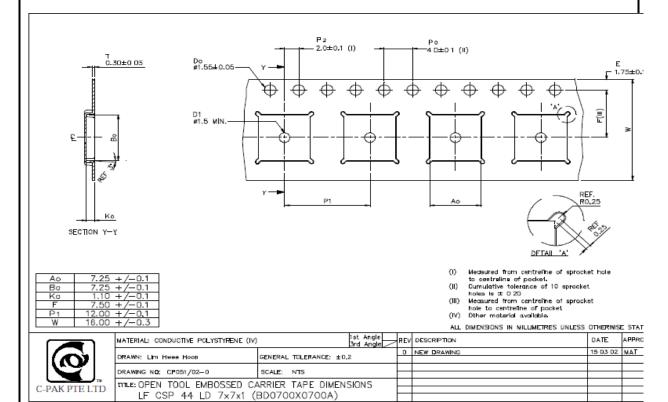
See Appendices below for detailed information about the tape & reel material differences.

Embed File(s):

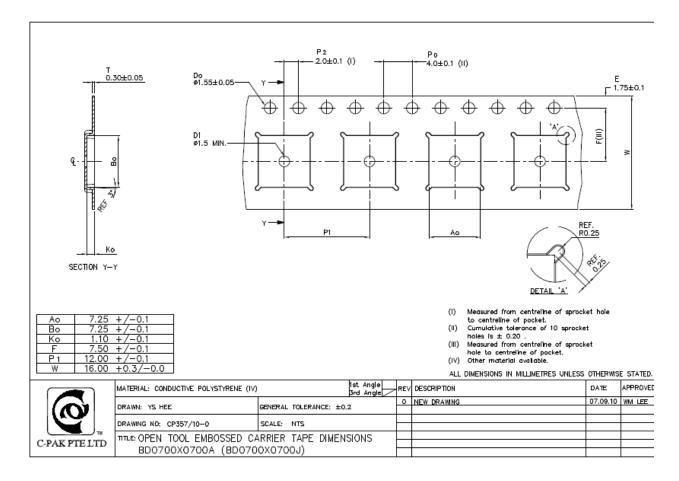
APPENDIX A (carrier tape comparison for 48QFN 7X7)

Critical dimension/package type	SCM	ASECL	Comparison Remarks
Material	Carrier Tape	Carrier Tape	
Vendor	Cpak	Cpak	
Part #	R021-0700X	BD0700X0700J	
Measurement Unit	MM	MM	MM
Carrier tape width	15.7 - 16.3	16.0 - 16.3	OK
Pocket pitch	11.9 - 12.1	11.9 - 12.1	OK
Rail hole pitch	3.9 - 4.1	3.9 - 4.1	OK
Pocket position to sprocket hole	7.4 - 7.6	7.4 - 7.6	ОК
Sprocket hole diameter	1.5 - 1.6	1.5 - 1.6	OK
Ao	7.15 - 7.35	7.15 - 7.35	OK
Во	7.15 - 7.35	7.15 - 7.35	OK
Ко	1.0 - 1.2	1.0 - 1.2	OK

SCM carrier drawing for 48QFN 7X7



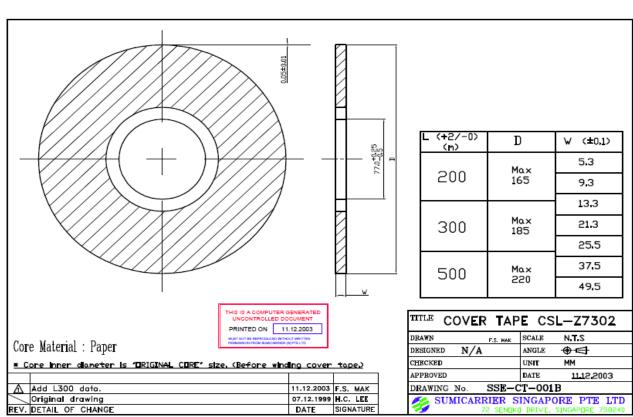
ASECL carrier drawing for 48QFN 7X7



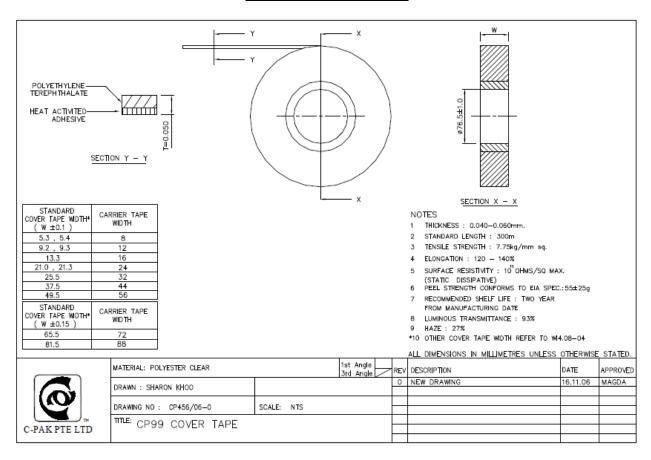
APPENDIX B (cover tape comparison on 48QFN 7X7)

Critical dimension/package type	SCM	ASECL	Comparison Remarks
Material	Cover Tape	Cover Tape	
Vendor	Sumi Carrier	Cpak	
Part #	R021-0114B	CP99-133A	
Measurement Unit	MM	MM	MM
Width	13.2 - 13.4	13.2 - 13.4	OK
Length	302 Meter	300 Meter	OK
ESD Properties			
Surface Resistivity (Ohms / SQ)	10 ¹¹	10 ¹¹	OK

SCM cover tape drawing



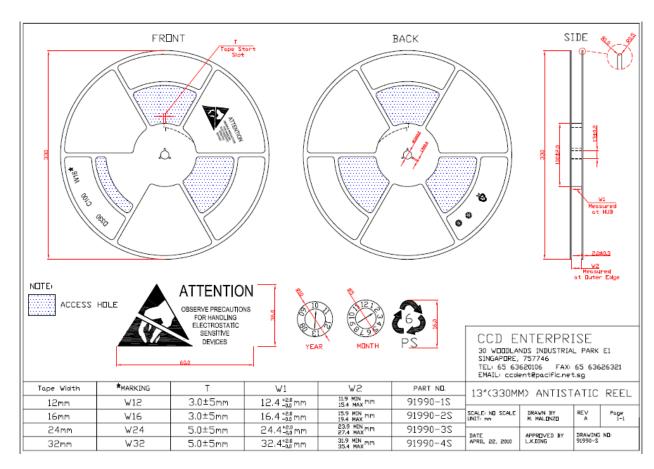
ASECL cover tape drawing



APPENDIX C (lokreel comparison on 48QFN 7X7)

Critical dimension/package type	SCM	ASECL	Comparison Remarks
Material	Lock Reel	Lock Reel	
Vendor	CCD Enterprise	Cpak	
Part No	R021-1462X	43000051P1	
Measurement Unit	MM	MM	MM
Reel Hub Width (W1)	16.4 - 16.6	16.4 - 16.6	OK
Reel Outer Width (W2)	15.9 - 19.4	16 - 22.4	Difference 0.1 - 3 (meeting EIA 481 spec.)
ESD Properties			
Surface Resistivity (Ohms / SQ)	10 ⁶ - 10 ¹¹	10 ⁶ - 10 ¹²	OK

SCM lokreel drawing



ASECL lokreel drawing

