

CMOS Melody ICs

Melody ICs

SEIKO EPSON's melody ICs offers wide range of features and melodies to suit all applications. Custom melodies are easily implemented with the built-in programmable mask ROMs.

Part number	Melodies (notes)	Transducer		Melody selection		Accompaniment	Envelope	Oscillator		Play mode		Abort play	Power supply voltage (V-typ.)			Package	Additional features
		Dynamic speaker	Piezo-buzzer	Binary code	Serial trigger			CR oscillation (Both C and R oscillators are built in.)	External clock	Level hold	One-shot		1.5V	3V	5V		
SVM7560M0A	2(128)	✓	-	✓	-	✓	✓	✓	-	✓	-	-	✓	-	SSOP-20pin	M**: SOP3A-8pin C**: DIP-8pin D**: Chip	
SVM7560M0B/C0B										-	✓ (One-shot C)						
SVM7560D0K										-	✓ (One-shot A)						
SVM7560M0M/C0M/D0M										-	✓ (One-shot A)						
SVM7560M0V	16(512)	✓	-	-	✓	✓	✓	✓	-	✓	-	-	✓	-	SSOP-20pin	☆: Selectable by the terminal	
SVM7561M0B/C0B/D0B										-	✓ (One-shot A)						
SVM7561M0C/C0C/D0C										-	✓ (One-shot A)						
SVM7100M0J	16(495)	-	✓	✓	-	-	-	✓	✓	☆	-	✓	-	SSOP-20pin	☆: Selectable by the terminal		

Music generators

Music generators are high-quality custom melody ICs capable of reproducing preprogrammed music by synthesizing the sounds of several musical and percussion instruments, as well as alarm signals.

Part number	Melodies (notes)	Transducer		Melody selection		Accompaniment	Envelope	Oscillator		Play mode		Abort play	Power supply voltage (V-typ.)			Package	Additional features
		Dynamic speaker	Piezo-buzzer	Binary code	Serial trigger			CR oscillation (Both C and R oscillators are built in.)	External clock	Level hold	One-shot		1.5V	3V	5V		
SVM7570M1L	15(620)	✓	-	✓	-	4	✓ (possible)	✓	-	✓ Level hold + One-shot	✓	-	-	✓	DIP-16pin*		
SVM7570M5P								-	✓								
SVM7570M6F								-	✓								
SVM7571C5N								-	✓								
SVM7571C6G								-	✓								
SVM7571C6H								-	✓								
SVM7571C6J								-	✓								
SVM7571C6K								-	✓								
SVM7571C6N								-	✓								
SVM7571C6P	-	✓															

*: Selectable 8 melodies (max.) in DIP-16pin

Standard melodies

Part number	Melody	Composer	Part number	Melody	Composer
7571C5N (5V spec.)	Goodbye Song Minuet Symphony No. 40 Für Elise The Entertainer Mary Had a Little Lamb CHIME ALARM	F. Chopin J. S. Bach W. A. Mozart L. v. Beethoven American Folk Song American Folk Song — —	7571C6P (5.0V)	She Wore a Yellow Ribbon My Darling Clementine The Yellow Rose of Texas Yankee Doodle When the Saints Go Marchin' in Londonderry Air Havah Nagilah Jamaica Farewell	American Folk Song American Folk Song American Folk Song American Folk Song American Folk Song Old Irish Melody Judaic Folk Song Jamaican Folk Song
7571C6G (5.0V)	Runner I Want to Take Care of You Oribia wo Kikinagara September Saturday Lovers Autumn Surf heaven, Ski Heavey Color/White Blend	New Funky Suekichi Yumi Matsutohya Ami Ozaki Mariya Takeuchi Tatsuroh Yamashita Kazumasa Oda Yumi Matsutohya Mariya Takeuchi	7570M6F (5.0V)	Yellow Submarine Yesterday Penny Lane Let It Be Ob-La-Di, Ob-La-Da Hey Jude All My Loving Here Comes the Sun	J. Lennon J. Lennon J. Lennon J. Lennon & P. McCartney J. Lennon J. Lennon J. Lennon George Harrison
7571C6H (5.0V)	Happy Birthday Mickey Mouse Club March It's a Small World Forest Bear Cha Cha Cha Toy Who Needs a Kid Like This? Lullaby	M. J. Hill Jimmie Dodd Richard M. Sherman American Folk Song Nobuyoshi Koshibe Takeshi Shibuya F. Schubert	7100M0J	It's a small world Love me tender Old macdonald had a farm March of the Toy Soldiers Yankee doodle dandy Rudolph the Red-Mosed Reindeer/ Santa Claus is Coming to Town Wedding March The Entertainer Two Minutes Landler Tanz CHIME Mickey Mouse club march	Richard M. Sherman Elvis Presley American Folk Song Leon Jessel American Folk Song Johnny Marks J. Fred Coots R. Wagner American Folk Song J. S. Bach W. A. Mozart — Jimmie Dodd
7570M5P/ 7571C6J (5.0V)	Rudolph the Red-Nosed Reindeer Twinkle Twinkle Little Star Old Macdonald had a Farm One Sunny Day London Bridge is Falling Down Mary Had a Little Lamb Rock-A-Bye Baby Lullaby	Johnny Marks French Folk Song American Folk Song American Folk Song English Folk Song American Folk Song American Folk Song J. Brahms	7560M0A	Je Te Veux Minuet	E. Statie L. Boccherini
7571C6K (5.0V)	We Wish You a Merry Christmas Ampanman Theme Electric Parade New Year's Day Ureshii Hinamatsuri Carp Run Lonesome Journey Snow	English Folk Song Takashi Miki J. Perrey & G. Kingsley Sanetsura Ue Kohyoh Kawamura Unknown Ordway J. P. Unknown	7560M0B	Beauty and the beast A whole new world Happy Birthday To You CHIME BUZZER	A. Menken A. Menken M. J. Hill — —
7571C6N (5.0V)	Jingle bells Rocky (theme) Star Wars (theme) James Bond (theme) Axel Foley (theme) Batman (theme) Indiana Jones (theme) Superman (theme) Popeye (theme)	J. Pierpont Bill Conti John Williams Manty Norman Harold Faltermeier Prince R. Nelso J. Williams J. Williams Lean Flatow	7560D0K 7560M0L* 7561M0B*	Aria Jimnopedi No.1 Spring song Green Sleeves Home on the Range Minuet The Entertainer Jingle bells Magnificent Waltz Heaven and Hell Bright Spring Flower Westminster CHIME BUZZER Calling sound(upper line) Calling sound(lower line)	Pasel E. Statie F. Mendelson English folk Song American Folk Song J. S. Bach American Folk Song J. Pierpont F. Chopin Offenbach M. Lock J. E. Zartor — — — —
7570M1L (3.0V)	Twinkle Twinkle Little Star Old Macdonald Had a Farm One Sunny Day London Bridge is Falling down Mary Had a Little Lamb Rock-a-Bye Baby Lullaby We Wish You a Merry Christmas	French Folk Song American Folk Song American Folk Song English Folk Song American Folk Song American Folk Song J. Brahms English Folk Song			

All the part numbers without voltage indication are for 1.5V.
All the part numbers are written without SVM. (SVM 7xxx formally)

Melody ICs/Music Generator Development

Melody ICs development

Melody ICs are customized by programming the ROM data with the customer's melody.

Custom IC ordering information

Minimum order		30,000 ICs over six months
Medium		Music score or magnetic tape
Delivery schedule	Simulation tape	Ten days after receipt of the medium
	Test samples (5 units of ceramic packages)	Six weeks after approval of the simulation tape
	Volume production	Ten weeks after receipt of the order
Simulation tape		¥120,000 for the SVM7561/7100 series, ¥60,000 for the SVM7560 series
Mask charge		¥500,000 standard; Test samples are included.
Exclusiveness	Period	Six months from the start of volume delivery, or three months after the delivery of test samples, if no order is placed.
	Applicability	A melody IC is an object of exclusiveness in its original form as defined in the customer's original specification. A melody IC with any amendments in form or function is not considered to be an object of exclusiveness.
Other		<ul style="list-style-type: none"> • Copyrighting will be handled by SEIKO EPSON • When selling our melody ICs or products using them to countries other than your own, dealing again with copyright matters may exceptionally become necessary depending on the regulations of the country to sell to. • Special options are not included in the mask charge. • Since the delivery schedule is based on that of a standard product, actual delivery dates may vary.

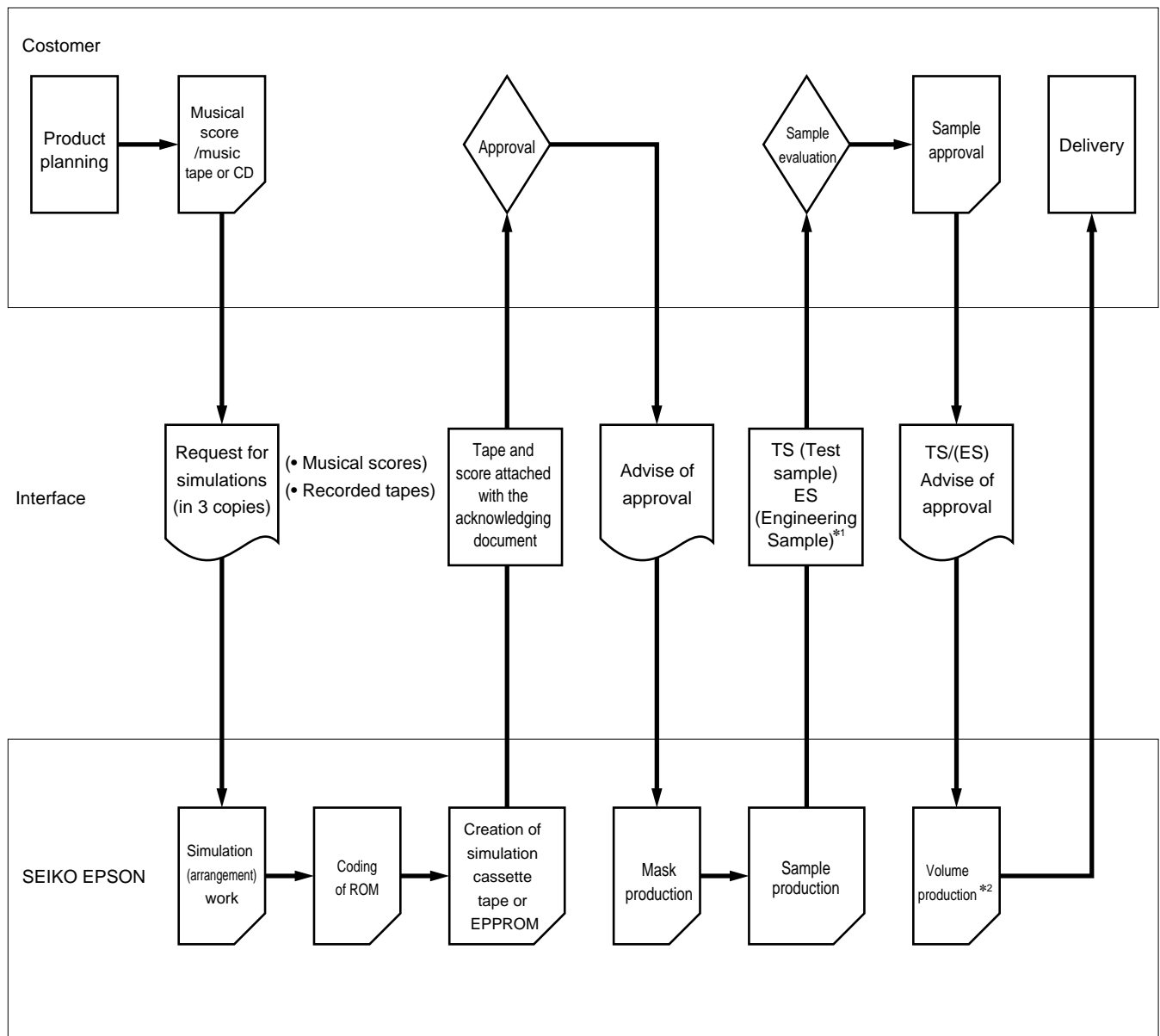
Music generator development

Music generators are customized by programming the ROM data with the customer's music arrangement.

Custom IC ordering information

Minimum order		10,000 ICs over six months
Medium		Music score or magnetic tape
Delivery schedule	Simulation tape	Fourteen days after receipt of the medium, plus two days per extra tune for more than five tunes
	Test samples (5 units of ceramic packages)	Six weeks after approval of the simulation tape
	Volume production	Ten weeks after receipt of the order
Simulation tape		¥120,000 plus ¥5,000 per extra tune for more than five tunes
Mask charge		¥500,000, including test samples
Exclusiveness	Period	Six months from the start of volume delivery, or three months after the delivery of the test samples, if no order is placed.
	Applicability	A music generator is an object of exclusiveness in its original form as defined in the customer's original specification. A music generator with any amendments in form or function is not considered to be an object of exclusiveness.
Other		<ul style="list-style-type: none"> • Copyrighting will be handled by SEIKO EPSON. • When selling our melody ICs or products using them to countries other than your own, dealing again with copyright matters may exceptionally become necessary depending on the regulations of the country to sell to. • Special options are not included in the mask charge. • Since the delivery schedule is based on that of a standard product, actual delivery dates may vary.

Development flow



*1: Engineering samples are provided for the SVM7570.

*2: Shipping Specifications will be issued, if required.