

Resonators — continued

The following 3 lead Ceramic Resonators can make up oscillation circuits without load capacitance. These are Resonators with built-in capacitor.

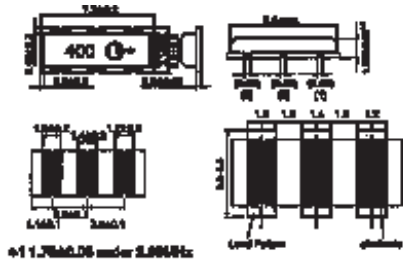
SEM294

Freq. MHz	W	H	D	Lead Spacing	Mftrs. List No.	Order Code	Price Each			
							1+	10+	100+	250+
2.00	7.4	2.0	3.4	2.5	PBRC-2.00BR	SMD 648-140				
3.58	10.0	6.0	5.0	2.5	KBR-3.58MKS	573-966				
3.58	7.4	2.0	3.4	2.5	PBRC-3.58BR	SMD 574-053				
4.00	10.0	6.0	5.0	2.5	KBR-4.00MKS	573-978				
4.00	7.4	2.0	3.4	2.5	PBRC-4.00BR	SMD 574-065				
4.19	10.0	6.0	5.0	2.5	KBR-4.19MKS	573-980				
4.19	7.4	2.0	3.4	2.5	PBRC-4.19BR	SMD 648-152				
6.00	10.0	6.0	5.0	2.5	KBR-6.00MKS	573-991				
6.00	7.4	2.0	3.4	2.5	PBRC-6.00BR	SMD 574-041				
8.00	7.4	2.0	3.4	2.5	PBRC-8.00BR	SMD 574-077				
10.0	7.4	2.0	3.4	2.5	PBRC-10.0BR	SMD 648-164				
12.0	7.4	2.0	3.4	2.5	PBRC-12.0BR	SMD 648-176				
16.0	7.4	2.0	3.4	2.5	PBRC-16.0BR	SMD 648-188				
20.0	7.4	2.0	3.4	2.5	PBRC-20.0BR	SMD 648-190				

CSTCC Ceramic Resonators



CSTCC Series



- The CSTCC/CR series of SMD Resonators offer an alternative to quartz crystal as a clock source for ICs
- Three terminal design includes built in loading capacitors which reduces external circuitry and cost of design
- Smaller than equivalent quartz crystal
- Rise time for ceramic resonator is approx. 1/100th that for quartz crystal
- Total Tolerance as low as $\pm 0.5\%$



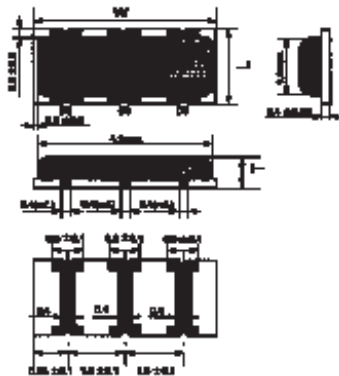
SEM919

Freq. MHz	W	H	D	Lead Spacing	Mftrs. List No.	Order Code	Price Each		
							1+	10+	100+
2.00	7.2	1.55	3.0	2.5	CSTCC2.00MG-TC	353-0814			
3.58	7.2	1.55	3.0	2.5	CSTCC3.58MG-TC	353-0826			
3.64	7.2	1.55	3.0	2.5	CSTCC3.64MG-TC	353-0838			
3.68	7.2	1.55	3.0	2.5	CSTCC3.68MG-TC	353-0840			
3.84	7.2	1.55	3.0	2.5	CSTCC3.84MG-TC	353-0851			
8.00	7.2	1.55	3.0	2.5	CSTCC8.00MG-TC	353-0917			
10.00	7.2	1.55	3.0	2.5	CSTCC10.0MG-TC	353-0929			

CSTCR Ceramic Resonators



CSTCR Series



- The CSTCR range are the world's smallest resonators at these frequencies
- The gold terminations are compatible with conductive adhesive based Pb free process
- Three terminal design includes built in loading capacitors which reduces external circuitry and cost of design
- Smaller than equivalent quartz crystal
- Rise time for ceramic resonator is approx. 1/100th that for quartz crystal
- Total Tolerance as low as $\pm 0.5\%$



SEM920

Freq. MHz	W	H	D	Lead Spacing	Mftrs. List No.	Order Code	Price Each		
							1+	10+	100+
4.00	4.50	1.15	2.00	1.50	CSTCR4M00G53-R0	353-0863			
4.19	4.50	1.15	2.00	1.50	CSTCR4M19G53-R0	353-0875			
4.91	4.50	1.15	2.00	1.50	CSTCR4M91G53-R0	353-0887			
5.00	4.50	1.15	2.00	1.50	CSTCR5M00G53-R0	353-0899			
6.00	4.50	1.15	2.00	1.50	CSTCR6M00G53-R0	353-0905			

Delay Lines

SEM49

A range of lumped constant and TTL, compatible delay lines suitable for use in micro-processor, memory and general digital timing applications. Available in SIP (single-in-line), DIL (0.3" leadframe moulding) and DIP (0.3" pin spacing encapsulation) packages.

Lumped Constant Passive unbuffered
14 pin DIL package



Function:	Mftrs. List No.	Order Code	Price Each		
			1+	10+	100+
10 Tap delay line					
1ns per tap, 10ns overall	11ACB10012E	.176-532			
2ns per tap, 20ns overall	11ACB20012E	.176-533			
5ns per tap, 50ns overall	11ACB50012E	.175-212			
10ns per tap, 100ns overall	11ACB10112E	.175-213			
25ns per tap, 250ns overall	11ACB25112E	.176-536			