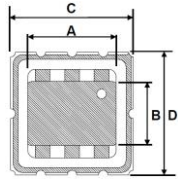


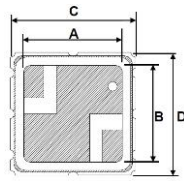
## KYOCERA SURFACE MOUNT CERAMIC PACKAGES FOR ELECTRONIC DEVICES

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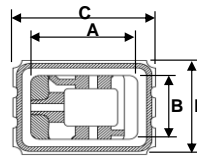
SAW Filter Package



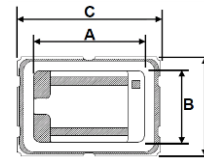
Monolithic Crystal Filter (MCF) Package



Oscillator (OSC) Package



Crystal Package



UNIT: mm

R0171H

No.	PACKAGE NAME	PACKAGE DRAWING NUMBER	SEAL METHOD	OVERALL DIMENSION C x D	CAVITY DIMENSION A x B	PACKAGE TOTAL THICKNESS	SOLDER PAD	KYOCERA MATERIAL CODE A440: BLACK A443: BLACK AO700: GRAY AO800: GRAY	MATCHING LID DRAWING NUMBER
1	1109 CSP PKG (*55.89X51.24 Panel)	KD-VB8643	---	(1.1)X(0.9)	---	0.16	5	A440	NOT AVAILABLE
2	1109 CSP PKG (*93.81 SQ. Panel)	KD-VB8641	---	(1.1)X(0.9)	---	0.16	5	A440	NOT AVAILABLE
3	1411CSP PKG (*55.89X51.24 Panel)	KD-VB7723-A	---	(1.4)X(1.1)	---	0.16	5	A440	NOT AVAILABLE
4	1411 CSP PKG (*93.81 SQ. Panel)	KD-VB6R92-A	---	(1.4)X(1.1)	---	0.16	5	A440	NOT AVAILABLE
5	2.0SQ PKG	KD-VB7D40	SOLDER	2.05X2.05	1.2X1.1	0.90	6	A440	NOT AVAILABLE
6	2.0SQ PKG	KD-VB7D42	EPOXY	2.05X2.05	1.2X1.1	0.90	6	A440	NOT AVAILABLE
7	2.5X2.0 PKG	KD-VB7B74	EPOXY	2.55X2.05	1.35X1.1	0.90	6	A440	NOT AVAILABLE
8	2.5X2.0 PKG	KD-VB7C66	SOLDER	2.55X2.05	1.35X1.1	0.90	6	A440	NOT AVAILABLE
9	3.0 SQ. PKG	KD-VB8707	SEAM	3.0X3.0	1.88X1.5	1.01	6	A443	KD-X99571-01
10	3.0 SQ. SAW PKG	KD-VB8450	SEAM	3.0X3.0	1.88X1.5	1.09	6	A443	KD-X99571-01
11	3.0 SQ. PKG	KD-VB7925-A-#	SOLDER	3.0X3.0	1.9X1.6	1.10	6	A440	NOT AVAILABLE
12	3.0 SQ. PKG	KD-VB7927	EPOXY	3.0X3.0	1.9X1.6	1.10	6	A440	KO-LID160782
13	3.8 SQ. PKG	KD-VB8709	SEAM	3.8X3.8	2.48X2.0	1.08	6	A440	KD-X99J15-01
14	3.8 SQ. SAW PKG	KD-VB8452	SEAM	3.8X3.8	2.8X2.0	1.09	6	A440	KD-X99J15-01
15	4.0 SQ. PKG	KD-VB7921	SOLDER	4.0X4.0	2.7X2.3	1.10	6	A440	NOT AVAILABLE
16	4.0 SQ. PKG	KD-VB7923	EPOXY	4.0X4.0	2.7X2.3	1.10	6	A440	NOT AVAILABLE
17	5.0 SQ. SAW PKG	KD-V99902-A-#	SEAM	5.0X5.0	3.6X2.6	1.25	8	A440	KD-X99587-01
18	5.0 SQ. PKG	KD-VB8711	SEAM	5.0X5.0	3.6X2.6	1.25	8	A440	KD-X99587-01
19	5.0 SQ. PKG	KD-VB7955	SOLDER	5.0X5.0	3.6X3.1	1.10	8	A440	NOT AVAILABLE
20	5.0 SQ. PKG	KD-VB7957	EPOXY	5.0X5.0	3.6X3.1	1.10	8	A440	KO-LID150102
21	5.2X4.8 SMD PKG	KD-V95B49-C-#	SEAM	5.2X4.8	3.2X2.4	1.35	8	A440	KD-X99572-01
22	7.0X5.0 PKG	KD-VB8759	SEAM	7.0X5.0	5.55X2.9	1.50	12	A443	KD-X99E83-01
23	7.0X5.0 PKG	KD-VB8A07	SOLDER	7.0X5.0	5.55X2.9	1.20	12	A443	NOT AVAILABLE
24	7.0X5.0 PKG	KD-VB8A27	EPOXY	7.0X5.0	5.55X2.9	1.20	12	A443	NOT AVAILABLE
25	9.1X7.1 SAW PKG	KD-V92457-A	SEAM	9.1X7.1	7.1X3.1	1.80 MAX	10	A440	KD-X99589-01
26	13.3X6.5 SAW PKG	KD-V92458-C-#	SEAM	13.3X6.5	10.1X4.5	1.80 MAX	12	A440	KD-X99592-01
27	13.3X6.5 SAW PKG	KD-V99377-A	SEAM	13.3X6.5	11.9X3.1	1.36	12	A443	KD-X99E84-01
28	15.9X6.5 SAW PKG	KD-V99376	SEAM	15.9X6.5	14.25X3.07	1.76	10	A443	KD-X99E91-01
29	19.0X6.5 SAW PKG	KD-VB4B84	SEAM	19.0X6.5	17.35X3.07	1.64	10	A440	KD-X99594-01
30	5.0 SQ. MEMS PKG (8LCC)	KD-VB3148-#	EPOXY	5.0X5.0	3.6X2.65	1.40	8	A440	KO-LID150102
31	5.0 SQ. MEMS PKG (8LCC)	KD-VA3E22-A-#	SOLDER	5.0X5.0	3.6X2.65	1.70	8	A440	NOT AVAILABLE
32	3.0 SQ. MCF PKG	KD-V99523	SEAM	3.0X3.0	2.2X2.2	0.80	8	A443	KD-XB8796
33	7.0X5.0 MCF PKG	KD-V96800	SEAM	7.0X5.0	5.4X3.6	1.20	6	A440	KD-XB8741
34	2.5X2.0 OSC PKG	KD-VA6K36-#	SEAM	2.5X2.0	1.9X1.4	0.82	4	A443	KD-XB8725
35	2.5X2.0 OSC PKG(6pads)	KD-VB6D45	SEAM	2.5X2.0	1.9X1.4	0.87	6	A443	KD-XB8725
36	3.2X2.5 OSC PKG	KD-VA5B23-A-#	SEAM	3.2X2.5	2.4X1.7	0.90	4	A443	KD-XB8727
37	3.2X2.5 OSC PKG	KD-VA6F60-A-#	SEAM	3.2X2.5	2.4X1.7	0.94	4	A443	KD-XB8727
38	3.2X2.5 OSC PKG(6pads)	KD-VB5A04	SEAM	3.2X2.5	2.4X1.7	0.80	6	A443	KD-XB8727
39	5.0X3.2 OSC PKG	KD-VA4247-#	SEAM	5.0X3.2	4.1X2.3	1.10	4	A443	KD-XB8733
40	6.0X3.5 OSC PKG	KD-V93128-C-#	SEAM	6.0X3.5	4.8X2.1	1.50	4	A440	KD-XB8737
41	7.0X5.0 OSC PKG	KD-VA1255-B-#	SEAM	7.0X5.0	5.4X3.6	1.50	6	A440	KD-XB8741
42	7.0X5.0 OSC PKG 1.2t	KD-VA7L69-#	SEAM	7.0X5.0	5.4X3.6	1.20	4	A443	KD-XB8741
43	7.0X5.0 OSC PKG 1.5t	KD-VA2J19-#	SEAM	7.0X5.0	5.4X3.6	1.50	4	A440	KD-XB8741
44	5.0X3.2 VCXO PKG	KD-VA4F51-A-#	SEAM	5.0X3.2	4.1X2.3	1.10	6	A443	KD-XB8733
45	7.0X5.0 VCXO PKG	KD-VA1806-#	SEAM	7.0X5.0	5.4X3.6	1.50	6	A440	KD-XB8741
46	7.0X5.0 TCXO PKG	KD-V98A45-A-#	-	7.0X5.0	2.8X2.6	0.70	10	A440	NOT AVAILABLE
47	1.65x1.25 XTAL PKG	KD-VB0M18	Au-Sn	1.65X1.25	1.33X0.93	0.25	4	AO700	KD-XB8969
48	2.05X1.65 XTAL PKG	KD-VA6K35-A	Au-Sn	2.05X1.65	1.65X1.25	0.42 MAX	4	AO700	KD-XB8965
49	2.05X1.65 XTAL PKG	KD-VA8547	SEAM	2.05X1.65	1.59X1.19	0.38	4	AO700	KD-XB8723
50	2.05X1.65 XTAL PKG (Au 0.1um min.)	KD-VB5176-A	SEAM	2.05X1.65	1.59X1.19	0.38	4	AO700	KD-XB8723
51	2.55X2.05 XTAL PKG	KD-VA9U01	SEAM	2.55X2.05	1.94X1.44	0.47	4	A443	KD-XB8725
52	3.2X2.5 XTAL PKG	KD-VA2L17-B-#	DIRECT SEAM®	3.2X2.5	2.3X1.6	0.50	4	A443	NOT AVAILABLE
53	3.2X2.5 XTAL PKG	KD-VA9237	SEAM	3.2X2.5	2.55X1.85	0.60	4	A443	KD-XB8729

No.	PACKAGE NAME	PACKAGE DRAWING NUMBER	SEAL METHOD	OVERALL DIMENSION C x D	CAVITY DIMENSION A x B	PACKAGE TOTAL THICKNESS	SOLDER PAD	KYOCERA MATERIAL CODE A440: BLACK A443: BLACK AO700: GRAY AO800: GRAY	MATCHING LID DRAWING NUMBER
54	4.0X2.5 XTAL PKG	KD-VA2K02-A	SEAM	4.0X2.5	3.2X1.7	0.55	4	A443	KD-XB8731
55	4.9X3.1 XTAL PKG	KD-V99F06	SEAM	4.9X3.1	4.0X2.2	0.65	4	A443	KD-XB8733
56	5.0X3.2 XTAL PKG	KD-V99951-#	DIRECT SEAM®	5.0X3.2	4.1X2.3	0.65	4	A443	KD-XA2A37
57	5.0X3.2 XTAL PKG	KD-V99087-C-#	SEAM	5.0X3.2	4.1X2.3	0.80	4	A443	KD-XB8735
58	6.0X3.5 XTAL PKG	KD-V99620-A	SEAM	6.0X3.5	4.8X2.3	0.90 MAX	4	A443	KD-XB8739
59	7.0X5.0 XTAL PKG	KD-V99624	SEAM	7.0X5.0	5.4X3.6	0.90	4	A443	KD-XB8741
60	7.0X5.0 XTAL PKG	KD-VA2H83-#	SEAM	7.0X5.0	5.4X3.6	0.90	4	A443	KD-XB8741
61	2.05X1.65 XTAL PKG	KD-VB1227	FRIT	2.05X1.65	1.65X1.25	0.355	4	AO700	KC-LID110650-A
62	2.5X2.0 XTAL PKG	KD-VA7L96	FRIT	2.5X2.0	2.1X1.6	0.45	4	A440	A-000021-C1
63	3.2X2.5 XTAL PKG	KD-V99358-A-#	FRIT	3.2X2.5	2.3X1.6	0.50	4	A443	A-000020-C1
64	3.2X2.5 XTAL PKG (Au 0.1um min.)	KD-VB5B86-A	SEAM	3.2X2.5	2.55X1.85	0.60	4	A443	KD-XB8729
65	4.0X2.5 XTAL PKG	KD-V99362-A-#	FRIT	4.0X2.5	3.1X1.6	0.60	4	A443	A-009201-01
66	5.0X3.2 XTAL PKG	KD-V97845-B-#	FRIT	5.0X3.2	3.7X2.0	0.60	2	A440	A-000003-A1
67	5.0X3.2 XTAL PKG	KD-V99E57-A-#	FRIT	5.0X3.2	4.0X2.2	0.65	4	A440	A-000011-A1
68	5.0X3.2 XTAL PKG	KD-VA1998-A	FRIT	5.0X3.2	4.0X2.2	0.60	2	A440	A-000011-A1
69	6.0X3.5 XTAL PKG	KD-V98642-B-#	FRIT	6.0X3.5	4.8X2.3	0.60	2	A440	A-000005-A1
70	7.0X5.0 XTAL PKG	KD-V99352	FRIT	7.0X5.0	5.4X3.6	0.60	2	A440	A-000007-A1
71	7.0X5.0 XTAL PKG	KD-VA0637	FRIT	7.0X5.0	5.4X3.6	0.60	4	A440	A-000007-A1
72	8.0X4.5 XTAL PKG	KD-VA0B08-#	FRIT	8.0X4.5	6.0X3.0	0.80	2	A440	A-009024-K4
73	3.2X1.5 TF XTAL PKG	KD-VA7071	Au-Sn	3.2X1.5	2.5X0.8	0.50	2	A443	KD-XB8967
74	4.1X1.5 TF XTAL PKG	KD-VA3E35	Au-Sn	4.1X1.5	3.4X0.8	0.70	2	A440	KD-XB8963
75	1.22X1.02 XTAL PKG	KD-VB7A16	SEAM	1.22X1.02	0.95X0.75	0.30MAX	4	AO800	KD-XB7H08
76	1.22X1.02 XTAL PKG	KD-VB5F28	Au-Sn	1.22X1.02	0.98X0.78	0.20	4	AO800	KD-XB8961
77	1.65X1.25 XTAL PKG	KD-VB7S45-B	SEAM	1.65X1.25	1.33X0.93	0.27 MAX	4	AO700	KD-XB8743
78	6.22X4.32 DIODE PKG (6LCC)	KD-V94364-A-#	Au-Sn	6.22X4.32	4.45X2.54	1.40	6	A440	NOT AVAILABLE
79	3.05X2.54 DIODE PKG (3LCC)	KD-VA0219-#	Au-Sn	3.05X2.54	1.78X1.27	1.02	3	A440	NOT AVAILABLE

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\*\* In the case of package drawing number with -#, please select piece part or array sheet for shipment from Kyocera.

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