

Monolithic Crystal Filters

96SMF SERIES (2-POLE MCF IN 7X5mm PACKAGE)

STANDARD SMD MCF

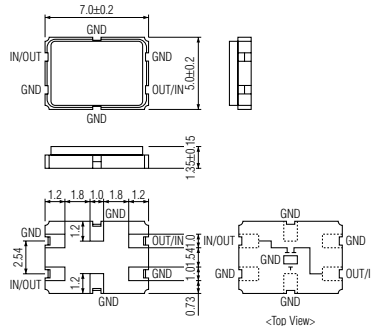
STANDARD SPECIFICATIONS

Part number	Nominal Frequency f_0	Oscillation Mode	Passband min.		Stopband max.		Attenuation Guaranteed min.		Ripple max. (dB)	Loss max. (dB)	Terminating Impedance (Ω //pF)	Operating Temperature ($^{\circ}$ C)	No. of Pole
	(MHz)		(dB)	(kHz)	(dB)	(kHz)	(dB)	(kHz)					
96SMF214A7.5	21.4	FUND	3	± 3.75	20	± 18.0	70	-910	1.0	2.0	850//6.0	-30 to +80	2
96SMF214A15	21.4	FUND	3	± 7.50	18	± 25.0	70	-910	1.0	2.0	1500//1.5	-30 to +80	2
96SMF214A20	21.4	FUND	3	± 10.0	10	± 30.0	70	-910	1.0	2.0	1800//1.0	-30 to +80	2
96SMF214A30	21.4	FUND	3	± 15.0	15	± 45.0	70	-910	1.0	2.0	2000//0.5	-30 to +80	2
96SMF216A15	21.6	FUND	3	± 7.50	15	± 25.0	70	-910	1.0	2.0	1500//1.0	-30 to +80	2
96SMF217A7.5	21.7	FUND	3	± 3.75	15	± 12.5	70	-910	1.0	2.0	1200//5.0	-30 to +80	2
96SMF217A15	21.7	FUND	3	± 7.50	15	± 25.0	70	-910	1.0	2.0	1500//1.0	-30 to +80	2
96SMF243A20	24.349	FUND	3	± 10.0	10	± 25.0	70	-910	1.0	2.0	1350//1.5	-30 to +80	2
96SMF245A20	24.555	FUND	3	± 10.0	10	± 25.0	70	-910	1.0	2.0	1350//1.5	-30 to +80	2
96SMF250A20	25.0	FUND	3	± 10.0	10	± 25.0	70	-910	1.0	2.0	1350//1.5	-30 to +80	2
96SMF256A20	25.655	FUND	3	± 10.0	10	± 25.0	70	-910	1.0	2.0	1350//1.5	-30 to +80	2
96SMF271A19	27.145	FUND	3	± 9.50	25	-455.0	70	-910	1.0	1.5	1500//2.5	-30 to +80	2
96SMF292A20	29.25	FUND	3	± 10.0	10	± 25.0	70	-910	1.0	2.0	1800//1.5	-30 to +80	2
96SMF327A8	32.768	FUND	3	± 4.00	40	± 60.0	60	-910	1.0	2.0	650//4.5	-30 to +80	2
96SMF384A8	38.40	FUND	3	± 4.00	40	± 60.0	65	-910	1.0	2.0	650//4.5	-30 to +80	2
96SMF406A30	40.685	FUND	3	± 15.0	25	-455.0	70	-910	1.0	1.5	1000//1.0	-30 to +80	2
96SMF442A11	44.25	FUND	3	± 5.50	15	± 22.0	70	-910	1.0	2.0	390//6.0	-30 to +80	2
96SMF450A7.5	45.0	FUND	3	± 3.75	20	± 25.0	70	-910	1.0	2.0	650//3.5	-30 to +80	2
96SMF450A12	45.0	FUND	3	± 6.00	15	± 20.0	70	-910	1.0	2.0	650//5.0	-30 to +80	2
96SMF450A15	45.0	FUND	3	± 7.50	15	± 25.0	70	-910	1.0	2.0	560//6.0	-30 to +80	2
96SMF450A30	45.0	FUND	3	± 15.0	15	± 60.0	70	-910	1.0	2.0	1200//1.8	-30 to +80	2
96SMF489A15	48.96	FUND	3	± 7.50	15	± 25.0	70	-910	1.0	2.0	600//3.0	-30 to +80	2
96SMF490A20	49.00	FUND	3	± 10.0	15	± 40.0	70	-910	1.0	2.5	1100//0	-30 to +80	2
96SMF7005A20	70.05	FUND	3	± 10.0	25	± 75.0	70	-910	1.0	2.5	600//1.5	-30 to +80	2
96SMF733A10	73.35	FUND	3	± 5.00	20	± 25.0	40	-910	1.0	4.0	260//4.4	-30 to +80	2
96SMF900A15	90.00	3rd	3	± 7.50	10	± 25.0	50	-910	1.0	2.0	2000//1.0	-30 to +80	2
96SMF960A15	96.00	3rd	3	± 7.50	50	$\pm 19.2M$	70	$\pm 38.4M$	1.0	3.0	2000// -0.5	-30 to +80	2
96SMF100A7.5	100.00	3rd	3	± 3.75	20	± 16.0	65	-910	1.0	3.0	1500//0.3	-30 to +80	2
96SMF109A24	109.65	3rd	3	± 12.0	18	± 60.0	65	-910	1.0	2.0	1500// -1.4	-30 to +80	2
96SMF109A30	109.65	3rd	3	± 15.0	22	± 60.0	65	-910	0.5	2.5	2000// -1.3	-30 to +80	2

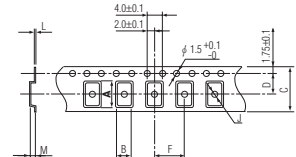
PACKAGE DATA

Item	Package	96SMF
Lid		Metal
Base		Ceramic
Sealing		Seam
Terminal		Tungsten (metalized)
Terminal plating		Gold / Nickel (surface/under)
RoHS		Compliant (Pb-free)

96SMF

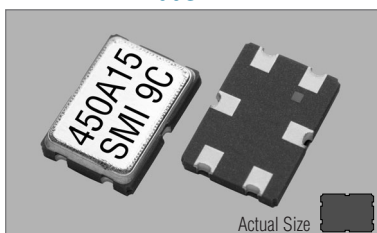


TAPE SPECIFICATIONS

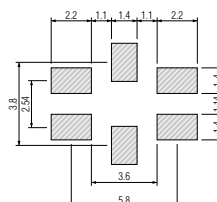


A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
7.4	5.4	16.0	7.5	8.0	1.5	0.3	1.8	178	1000pcs

96SMF



SOLDERING PATTERN



MCF