Monolithic Crystal Filters

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

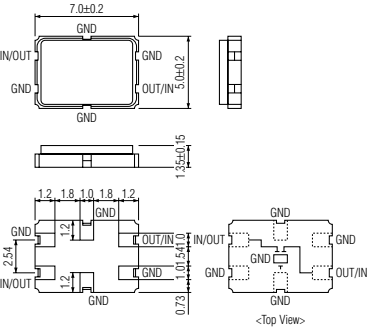
STANDARD SPECIFICATIONS

Part number	Nominal Frequency fo	Oscillation Mode	Passband min.		Stopband max.		Attention Guaranteed min.		Ripple max.	Loss max.	Terminating Impedance	Operating Temperature	No. of Pole
	(MHz)		(dB)	(kHz)	(dB)	(kHz)	(dB)	(kHz)	(dB)	(dB)	(Ω//pF)	(˚C)	
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	±19.2M	70	±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

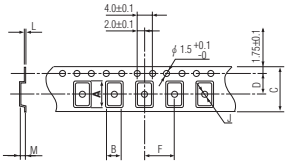
PACKAGE DATA

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

96SMF

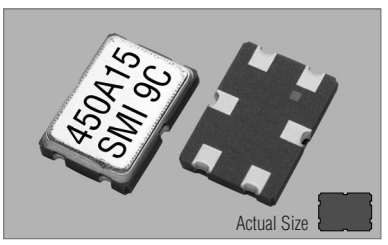


TAPE SPECIFICATIONS

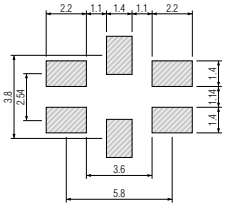


A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
7.4	5.4	16.0	7.5	8.0	1.5	0.3	1.8	178	1000pcs

96SMF



SOLDERING PATTERN



MCF