Monolithic Crystal Filters

Metal MCF 49/MCF C1 and D1 Packages

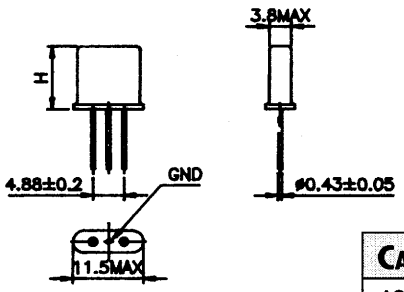
Electrical Specifications

	Model	No of Poles	Pass Bandwith (dB) (kHz)	Stop Bandwidth (dB) (kHz)	Ripple (dB)	Insertion Loss (dB)	Guaranteed Attenuation (dB)	Terminating Impedance (k Ω // pF)	Case
10MHz Series	10M 4D	8	6±2.0	80±50	2.0	4.0	90	0.9 // 10	D1
	10M 7.5A	2	3±3.75	20±18.0	0.5	2.0	30	1.5 // 5.0	49/T
Nominal frequency	10M 7.5B	4	3±3.75	40±21.0	1.0	2.5	40	1.5 // 5.0	49/Tx2
	10M 8B	4	3±4.0	40±15	1.0	2.5	40	1.5 // 6.0	49/TTx2
	10M 12A	2	3±6.0	18±23	0.5	2.0	20	2.5 // 2.5	49/T
10.695 MHz	10M 12B	4	3±6.0	40±20	1.0	2.5	40	1.5 // 2.0	49/Tx2
10.700 MHz	10M 15A	2	3±7.5	18±25	0.5	2.0	20	3.0 // 2.0	49/T
10.710 MHz	10M 15B	4	3±7.5	40±25	1.0	2.5	50	3.0 // 2.0	49/Tx2
17.900 MHz	10M 15C	6	3±7.5	60±25	2.0	3.0	65	3.0 //1.5	C1
	10M 15D	8	3±7.5	90±25	2.0	4.0	80	3.0 // 1.5	D1
	10M 20A	2	3±10	18±34	0.5	2.0	20	3.9 // 0	49/T
	10M 20B	4	3±10	40±34	1.0	2.5	40	3.9 // 0	49/Tx2
	10M 30A	2	3±15	15±50	1.0	2.0	15	5.0 // 0	49/T
	10M 30B	4	3±15	25±40	0.5	2.5	30	5.5 // 0	49/Tx2
	10M 14A	2	3±6.5	18±25	0.5	1.5	30	2.4 // 1.9	49/T

Note: x2 denotes set of 2

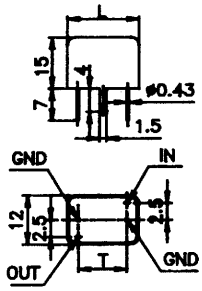
Mechanical Dimensions

MCF-49/T / MCF-49/TT



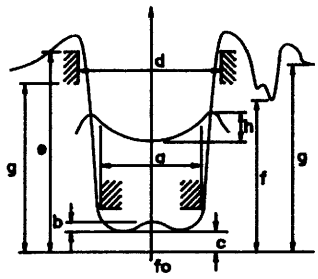
Case	H
49/T	11.1
49/TT	9.4

MCF C1 / MCF D1



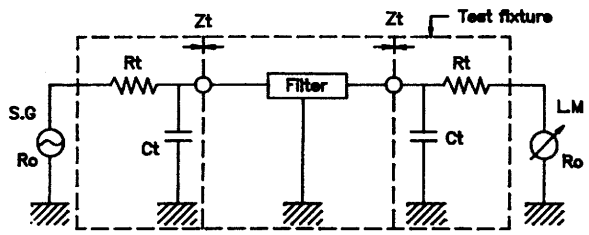
Case	L	T
C1	15	9
D1	18.5	13.4

Electrical Characteristics



POSITION	NAME
fo	Nominal Frequency
a	Pass Bandwidth
b	Ripple
c	Insertion loss
d	Stop Bandwidth
e	Stop Band Attenuation
f	Spurious Response
g	Guaranteed Attenuation
h	Group Delay

Test Circuit



Zt:Terminating Impedance(Rt+Ro)//Ct