Monolithic Crystal Filters

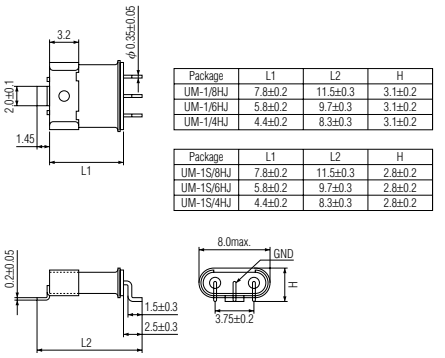
UM-1/HJ & UM-1S/HJ FAMILY — STANDARD SMD MCF

STANDARD SPECIFICATIONS

Part number	Nominal Frequency fo	Passband min.		Stopband max.		Attention Guaranteed min.		Ripple max.	Loss max.	Terminating Impedance	Coupling Capacitor	Operating Temperature	No. of Pole
	(MHz)	(dB)	(kHz)	(dB)	(kHz)	(dB)	(kHz)	(dB)	(dB)	(Ω//pF)	(pF)	(˚C)	
21M7.5A(HJ)	21.4	3	±3.75	20	±18.0	35 50	+350 to +1000 −200 to −1000	0.5	1.5	850//6.0	–	−30 to +80	2
21M7.5B(HJ)	21.4	3	±3.75	40	±14.0	65 80	+350 to +1000 −200 to −1000	1.0	2.5	850//5.0	16	−30 to +80	4 (2 pcs.)
21M12A(HJ)	21.4	3	±6.0	20	±25.0	35 50	+350 to +1000 −200 to −1000	0.5	1.5	1200//3.0	–	−30 to +80	2
21M12B(HJ)	21.4	3	±6.0	40	±20.0	65 80	+350 to +1000 −200 to −1000	1.0	2.0	1200//2.5	10.5	−30 to +80	4 (2 pcs.)
21M15A(HJ)	21.4	3	±7.5	18	±25.0	35 50	+350 to +1000 −200 to −1000	0.5	1.5	1500//2.5	–	−30 to +80	2
21M15B(HJ)	21.4	3	±7.5	40	±25.0	65 80	+350 to +1000 −200 to −1000	1.0	2.0	1500//2.0	8	−30 to +80	4 (2 pcs.)
21M30A(HJ)	21.4	3	±15.0	15	±45.0	35 45	+350 to +1000 −300 to −1000	0.5	1.5	1500//1.0	–	−30 to +80	2
21M30B(HJ)	21.4	3	±15.0	40	±50.0	65 80	+350 to +1000 −250 to −1000	1.0	2.0	2000//0.5	3	−30 to +80	4 (2 pcs.)
45M7.5A(HJ)	45	3	±3.75	10	±12.5	65	−910	1.0	2.0	200//4.0	–	−30 to +80	2
45M7.5B(HJ)	45	3	±3.75	30	±12.5	90	±900 to ±1000	1.0	4.0	350//6.5	18	−30 to +80	4 (2 pcs.)
45M15A(HJ)	45	3	±7.5	15	±25.0	35 65	+900 to +1000 −900 to −1000	1.0	2.0	650//3.0	–	−30 to +80	2
45M15B(HJ)	45	3	±7.5	30	±25.0	90	±900 to ±1000	1.0	3.0	650//3.0	9	−30 to +80	4 (2 pcs.)
45M30A(HJ)	45	3	±15.0	15	±60.0	35 65	+900 to +1000 −900 to −1000	1.5	2.5	1200//0	–	−30 to +80	2
45M30B(HJ)	45	3	±15.0	30	±50.0	80	±900 to ±1000	1.0	3.0	1200//0.7	3.5	−30 to +80	4 (2 pcs.)
45M7.5A3(HJ)	45 (3rd OT)	3	±3.75	10	±12.5	35	±910	1.0	2.0	2000//−0.4	–	−30 to +80	2
45M7.5B3(HJ)	45 (3rd OT)	3	±3.75	30	±12.5	75	±910	1.0	4.0	3000//−0.3	−0.1	−30 to +80	4 (2 pcs.)
45M15A3(HJ)	45 (3rd OT)	3	±7.5	15	±25.0	35	±910	1.0	2.0	4000//−0.7	–	−30 to +80	2
45M15B3(HJ)	45 (3rd OT)	3	±7.5	30	±25.0	75	±910	1.0	4.0	4000//−0.8	−1.0	−30 to +80	4 (2 pcs.)
P/N	Contact us for other frequencies or other specifications												

PACKAGE DATA

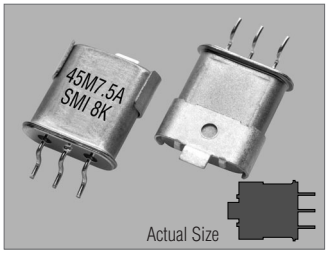
Item \ Package	UM-1 / 8HJ UM-1S / 8HJ	UM-1 / 6HJ UM-1S / 6HJ	UM-1 / 4HJ UM-1S / 4HJ
Cover	Metal	Metal	Metal
Base	Metal	Metal	Metal
Sealing	Resistance weld	Resistance weld	Resistance weld
Metal clamp	C5210R	C5210R	C5210R
Metal clamp plating	Gold	Gold	Gold
Terminal lead	Alloy (FeNiCo)	Alloy (FeNiCo)	Alloy (FeNiCo)
Terminal lead plating	Gold	Gold	Gold
RoHS	Compliant (Pb-free)	Compliant (Pb-free)	Compliant (Pb-free)



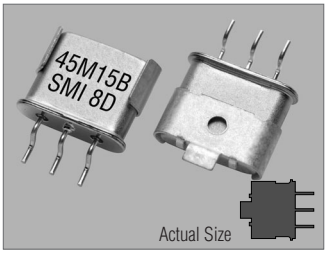
Package	L1	L2	H
UM-1/8HJ	7.8±0.2	11.5±0.3	3.1±0.2
UM-1/6HJ	5.8±0.2	9.7±0.3	3.1±0.2
UM-1/4HJ	4.4±0.2	8.3±0.3	3.1±0.2

Package	L1	L2	H
UM-1S/8HJ	7.8±0.2	11.5±0.3	2.8±0.2
UM-1S/6HJ	5.8±0.2	9.7±0.3	2.8±0.2
UM-1S/4HJ	4.4±0.2	8.3±0.3	2.8±0.2

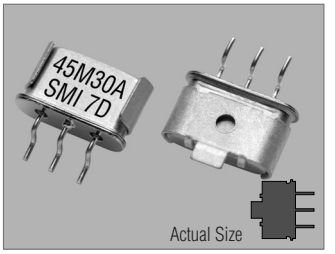
UM-1/8HJ & UM-1S/8HJ



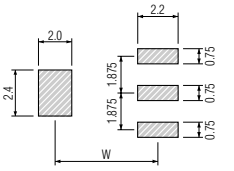
UM-1/6HJ & UM-1S/6HJ



UM-1/4HJ & UM-1S/4HJ

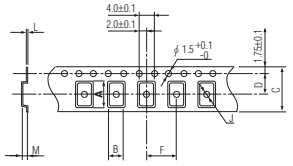


SOLDERING PATTERN



Holder	W
UM-1/8HJ & UM-1S/8HJ	10.0
UM-1/6HJ & UM-1S/6HJ	8.0
UM-1/4HJ & UM-1S/4HJ	6.6

TAPE SPECIFICATIONS



for UM-1/8HJ & UM-1S/8HJ

A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
12.4	8.2	24.0	11.5	12.0	1.5	0.4	3.3	330	1000pcs

for UM-1/6HJ & UM-1S/6HJ

A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
10.6	8.2	24.0	11.5	12.0	1.5	0.4	3.3	330	1000pcs

for UM-1/4HJ & UM-1S/4HJ

A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
9.2	8.2	16.0	7.5	12.0	1.5	0.4	3.3	330	1000pcs

MCF