

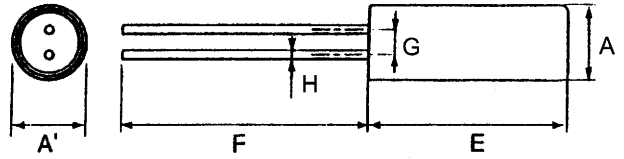
DT-26,DT-38,AT-39 Series: Cylinder type Crystal

20.0K-80.0MHz

● SPECIFICATION

Type	DT-26	DT-38	AT-39
Frequency Range (F)	20K-150KHz	20K-150KHz	3.579545M-80MHz
Frequency Tolerance (25°C)	±20PPM typical	±20PPM typical	±30PPM typical
Operation Temperature	-10°C~+60°C	-10°C~+60°C	-10°C~+60°C
Series Resistance	40K Ω max	30K Ω max	See Below
Quality Factor	40K min	50K min	—
Parabolic Coefficient	-0.04PPM/°C max	-0.04PPM/°C max	-0.04PPM/°C
Shunt Capacitance	1.8pF max	1.8pF max	7pF max
Load Capacitance	12.5pF typical or Special	12.5pF typical or Special	16.20.30pF or Special
Drive Level	1μW	1μW	50μW
Insulation Resistance	500MΩ min/DC100V	500MΩ min/DC100V	500MΩ min/DC100V
Aging	±5PPM/year	±5PPM/year	±5PPM/year

● DIMENSIONS(mm)



Type	A	A'	E	F	G	H
DT-26	2.0	2.0±0.1	6.0±0.2	7.0±0.1	0.65±0.2	0.24±0.07
DT-38	3.0	3.0±0.1	8.0±0.2	10.0±1.0	0.8±0.2	0.3±0.07
AT-39	3.0	3.0±0.1	E typical	10.0±1.0	0.8±0.2	0.3±0.07

● EQUIVALENT SERIES RESISTANCE

Freq. Range (MHz)	3.579-3.99	4.00-4.49	4.50-4.99	5.00-6.99	7.00-9.99	10.00-11.99	12.00-13.99	14.00-15.99	16.00-29.99
ESR(Ω) max	180	150	120	100	80	70	60	50	40
Freq. Range (MHz)	30.00~39.99		40.00~49.99		50.00~80.00				
ESR(Ω) max	80		60		80				

* E typical=10.2(9.2)max for 3.579M≤F≤11.0592M
 9.2(8.2)max for 12M≤F<29M
 10.2max for F>29M

SM-26B,SM-38A,SM-39A Series :SMD Cylinder type Crystal

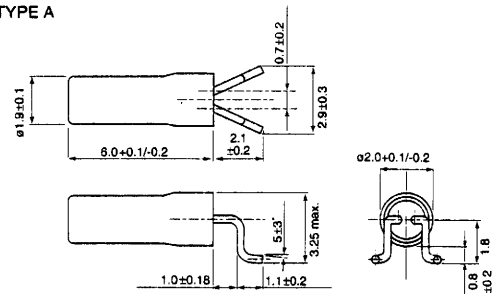
30.0K-80.0MHz

● SPECIFICATION

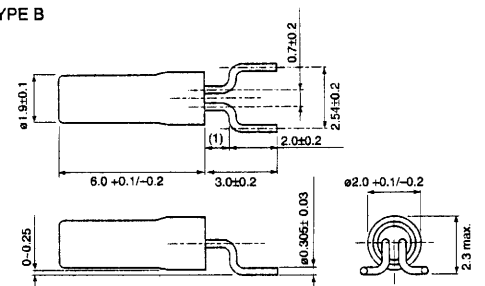
Type	SM-26B	SM-38A	SM-39A
Frequency Range (F)	30K~80KHz	30K~80KHz	3.579545M-80MHz
Frequency Tolerance (25°C)	±30PPM(at 25°C)	±30PPM(at 25°C)	±30PPM typical
Operation Temperature	-10°C~+60°C	-10°C~+60°C	-10°C~+60°C
Series Resistance	50K Ω max	60K Ω max	See above
Quality Factor	40K min	50K min	—
Parabolic Coefficient	-0.036±0.006PPM/°C	-0.036±0.006PPM/°C	-0.04PPM/°C
Shunt Capacitance	1.1pF Type	1.1pF Type	7pF max
Load Capacitance	12.5pF typical or Special	12.5pF typical or Special	16.20.30pF or Special
Drive Level	1.0μ±0.2μW	1.0μ±0.2μW	50μW
Insulation Resistance	500MΩ min/DC100V	500MΩ min/DC100V	500MΩ min/DC100V
Aging	±5PPM/year	±5PPM/year	±5PPM/year

● DIMENSIONS(mm)

TYPE A

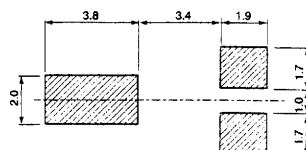


TYPE B



● RECOMMENDED LAND PATTERN(mm)

TYPE A



TYPE B

