

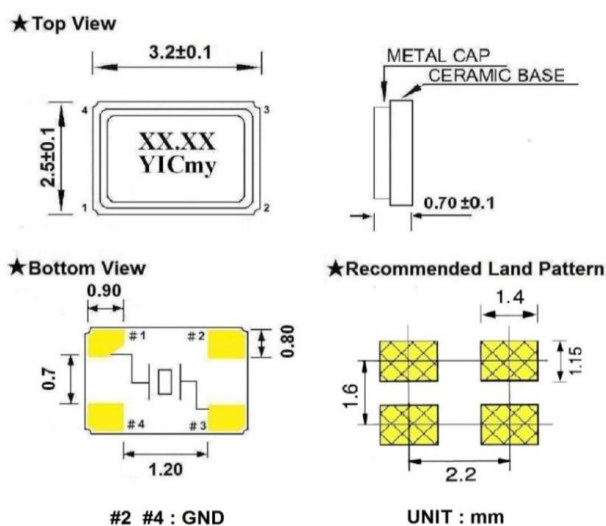
● SPECIFICATION

Model	XT324 Series
Frequency range	8.000 ~ 54.000 MHz , 54.000 ~ 125.000 MHz (3rd)
Frequency tolerance	$\pm 10 \sim \pm 30$ ppm (at 25°C)
Frequency stability	$\pm 10 \sim \pm 30$ ppm (ref. to 25°C)
Operation temperature	-20°C ~ +70°C , - 40°C ~ +85°C , - 40°C ~ +125°C , specify
Storage temperature	- 55°C ~ + 125°C
Load capacitance	8 to 32 pF or specify
Drive Level	10 uW (typ) , 100 uW (max)
Series resistance	See below
Shunt capacitance	3 pF (max)
Aging	± 3 ppm / Year (max)

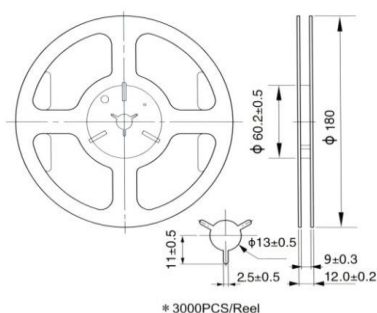
● EQUIVALENT SERIES RESISTANCE

Frequency MHz	Model	ESR
8.000-11.999	Fundamental	400 Ω max.
12.000-12.999	Fundamental	100 Ω max.
13.000-16.000	Fundamental	60 Ω max.
16.001-20.000	Fundamental	50 Ω max.
20.001-54.000	Fundamental	40 Ω max.
54.00-125.000	3rd	100 Ω max.

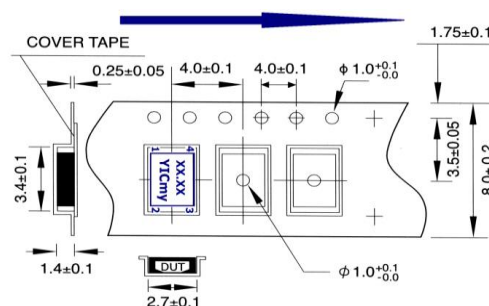
● DIMENSIONS (mm)



● REEL PACKING(mm)



● TAPE SPECIFICATION(mm)



• MHz Crystals :

	M		P			/		-		/		
Frequency in MHz	Load Capacitance	Operation Temp.	Vibration Mode	Package Code	Tolerance at 25℃	Stability over Operation Temp.	Custom Speci.					
	00 : Series	1 : -10 ~ + 60℃	Blank : AT- Fund.	49U	5 : ± 5PPM	5 : ± 5PPM	*					
	6 : 6pf	Blank : -10 ~ + 70℃	A3 : AT- 3rd.	49T	10 : ± 10PPM	10 : ± 10PPM						
	7 : 7pf	2 : -20 ~ + 70℃	A5 : AT- 5th.	49US	15 : ± 15PPM	15 : ± 15PPM						
	8 : 8pf	27 : -20 ~ + 75℃	A7 : AT- 7th.	49SL	20 : ± 20PPM	20 : ± 20PPM						
	9 : 9pf	28 : -20 ~ + 85℃	BF : BT- Fund.	49SMT	Blank : ± 30PPM	Blank : ± 30PPM						
	10 : 10pf	37 : -30 ~ + 75℃		49SLMT	50 : ± 50PPM	50 : ± 50PPM						
	12 : 12pf	3 : -30 ~ + 80℃		50U	100 : ± 100PPM	100 : ± 100PPM						
	16 : 16pf	38 : -30 ~ + 85℃		51U	:	150 : ± 150PPM						
	18 : 18pf	I : -40 ~ + 85℃		UM1	:	:						
	20 : 20pf	A : -40 ~ + 105℃		UM5		:						
	22 : 22pf	B : -40 ~ + 125℃		AT26								
	30 : 30pf	C : -55 ~ + 125℃		SMAT26B								
	33 : 33pf	D : -40 ~ + 150℃		SMAT26BSP								
	:	X : Custom		AT38								
	:			SMAT38A								
				AT39								
				SMAT39A								
				AT310								
				SMAT310A								
				MA406								
				XT754								
				XT634								
				XT632								
				XT534								
				XT532								
				XT532G								
				XT324								
				XT324G								
				XT224								
				XT214								
				XT114								

• KHz Crystals :

	K		P		—		
Frequency in KHz	Load Capacitance	Operation Temp.	Package Code	Tolerance at 25℃	Custom Speci.		
	6 : 6pf	1 : -10 ~ + 60℃	DT15	5 : ± 5PPM	*		
	7 : 7pf	Blank : -10 ~ + 70℃	DT26	8 : ± 8PPM			
	8 : 8pf	2 : -20 ~ + 70℃	DT38	10 : ± 10PPM			
	9 : 9pf	27 : -20 ~ + 75℃	SM26BRC	15 : ± 15PPM			
	12.5 : 12.5pf	28 : -20 ~ + 85℃	SM26BSPRC	Blank : ± 20PPM			
	:	37 : -30 ~ + 75℃	SM38ARC	30 : ± 30PPM			
	:	3 : -30 ~ + 80℃	MC306	50 : ± 50PPM			
		38 : -30 ~ + 85℃	6914E	100 : ± 100PPM			
		I : -40 ~ + 85℃	3215E	:			
		A : -40 ~ + 105℃	2012E	:			
		B : -40 ~ + 125℃	2012ES				
		C : -55 ~ + 125℃	1610E				
		D : -40 ~ + 150℃					
		X : Custom					

