

● SPECIFICATION

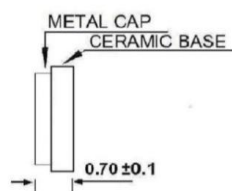
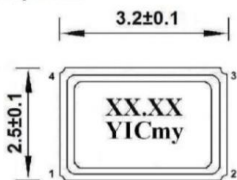
Model	XT324 Series
Frequency range	8.000 ~ 54.000 MHz , 54.000 ~ 125.000 MHz (3rd)
Frequency tolerance	$\pm 10 \sim \pm 30$ ppm (at 25°C)
Frequency stability	$\pm 10 \sim \pm 30$ ppm (ref. to 25°C)
Operation temperature	-20°C ~ +70°C , - 40°C ~ +85°C , - 40°C ~ +125°C , specify
Storage temperature	- 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

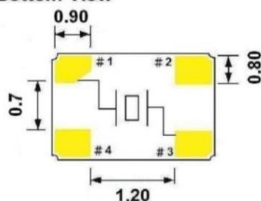
Frequency MHz	Model	ESR
8.000-11.999	Fundamental	400 Ω max.
12.000-12.999	Fundamental	100 Ω max.
13.000-16.000	Fundamental	60 Ω max.
16.001-20.000	Fundamental	50 Ω max.
20.001-54.000	Fundamental	40 Ω max.
54.00-125.000	3rd	100 Ω max.

● DIMENSIONS (mm)

★ Top View

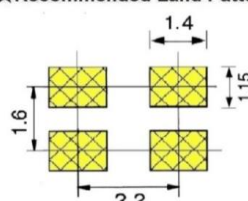


★ Bottom View



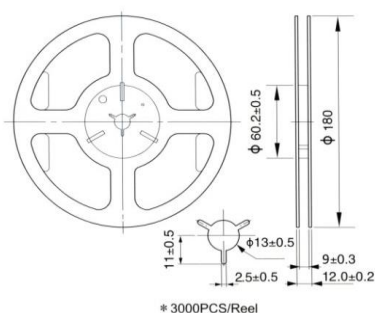
#2 #4 : GND

★ Recommended Land Pattern

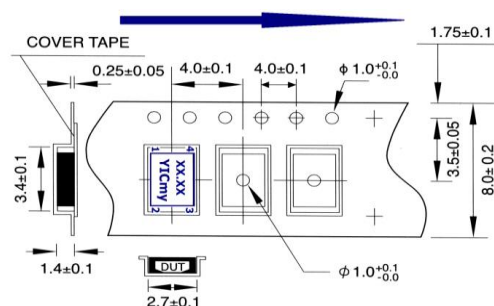


UNIT : mm

● 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°C		Custom Speci.
6 : 6pf				1 : -10 ~ + 60°C		DT15		5 : ± 5PPM		*
7 : 7pf				Blank : -10 ~ + 70°C		DT26		8 : ± 8PPM		
8 : 8pf				2 : -20 ~ + 70°C		DT38		10 : ± 10PPM		
9 : 9pf				27 : -20 ~ + 75°C		SM26BRC		15 : ± 15PPM		
12.5 : 12.5pf				28 : -20 ~ + 85°C		SM26BSPRC		Blank : ± 20PPM		
:				37 : -30 ~ + 75°C		SM38ARC		30 : ± 30PPM		
:				3 : -30 ~ + 80°C		MC306		50 : ± 50PPM		
				38 : -30 ~ + 85°C		6914E		100 : ± 100PPM		
				I : -40 ~ + 85°C		3215E		:		
				A : -40 ~ + 105°C		2012E		:		
				B : -40 ~ + 125°C		2012ES				
				C : -55 ~ + 125°C		1610E				
				D : -40 ~ + 150°C						
				X : Custom						

