

YIC



N:25°03', 42.594"
E:121°38', 45.588"



Professional Partner in GPS & Frequency Control



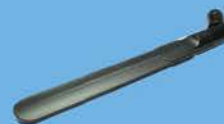
Frequency Control Products

Quartz Crystal Units (XTAL)
Crystal Oscillators(XO)
VCXO
TCXO / VCTCXO
OCXO
Ceramic Resonators
Ceramic Filters
Ceramic Discriminators
SAW Resonators
SAW Filters
MCF



GNSS Modules & Receivers

GPS / GNSS Modules
GPS / GNSS Antenna Modules
GPS / GNSS Receivers



RF Antennas

GPS / GNSS
MIMO Combo
4G LTE
3G / GSM
2.4G / 5.8GHz
DAB
ISM
RFID
Accessories



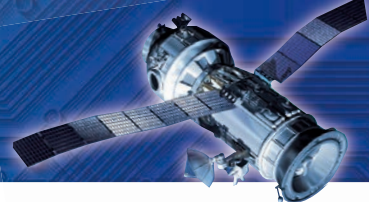
Quartz Crystal Units (XTAL)

MHz SMD				
Picture	Model	Dimension(mm)	Type	Frequency Range (MHz)
	XT104	1.2 x 1.0 x 0.35(H) , 4 Pad	Seam Seal , SMD1210	24 ~ 54
	XT114	1.6 x 1.2 x 0.4(H) , 4 Pad	Seam Seal , SMD1612	24 ~ 54
	XT214	2.0 x 1.6 x 0.45(H) , 4 Pad	Seam Seal , SMD2016	16 ~ 54
	XT224	2.5 x 2.0 x 0.5(H) , 4 Pad	Seam Seal , SMD2520	12 ~ 60
	XT324	3.2 x 2.5 x 0.7(H) , 4 Pad	Seam Seal , SMD3225	10 ~ 64
	XT324G	3.2 x 2.5 x 0.8(H) , 4 Pad	Glass Seal , SMD3225	12 ~ 50
	XT532	5.0 x 3.2 x 1.0(H) , 2 Pad	Seam Seal , SMD5032	8 ~ 125
	XT532G	5.0 x 3.2 x 1.4(H) , 2 Pad	Glass Seal , SMD5032	8 ~ 125
	XT534	5.0 x 3.2 x 1.0(H) , 4 Pad	Seam Seal , SMD5032	8 ~ 125
	XT632	6.0 x 3.5 x 1.2(H) , 2 Pad	Seam Seal , SMD6035	8 ~ 125
	XT634	6.0 x 3.5 x 1.2(H) , 4 Pad	Seam Seal , SMD6035	8 ~ 125
	XT754	7.0 x 5.0 x 1.4(H) , 4 Pad	Seam Seal , SMD7050	8 ~ 125
	49SMT / 49SLMT	11.4 x 3.8 x 4.2/3.2(H)	Metal Can , SMD	3 ~ 80

MHz Through-Hole				
Picture	Model	Dimension(mm)	Type	Frequency Range (MHz)
	49US / 49SL	11.5 x 4.6 x 3.5/2.5(H)	Metal Can	3 ~ 80
	49U	11.5 x 4.3 x 13.5(H)	Metal Can	1.8 ~ 200
	AT26 / AT38	Φ 2 x 6 / Φ 3 x 8	Cylinder	12 ~ 30

KHz SMD				
Picture	Model	Dimension(mm)	Type	Frequency Range (KHz)
	1610E	1.6 x 1.0 x 0.5(H)	Ceramic Base	32.768
	2012E	2.0 x 1.2 x 0.6(H)	Ceramic Base	32.768
	3215E	3.2 x 1.5 x 0.8(H)	Ceramic Base	32.768
	6914E	6.9 x 1.4 x 1.4(H)	Plastic Molding	32.768
	MC306	8.0 x 3.8 x 2.5(H)	Plastic Molding	32.768
	SM26B(SP)	Φ 2 x 6 , Pitch=2.54(1.27)	Cylinder , SMD	30 ~ 200

KHz Through - Hole				
Picture	Model	Dimension(mm)	Type	Frequency Range (KHz)
	DT-26 / DT-38	Φ 2 x 6 / Φ 3 x 8	Cylinder	30 ~ 200



Crystal Oscillators (XO)

SPXO			
Picture	Model	Dimension(mm)	Frequency Range (MHz)
	OSC-S21	2.0 x 1.6 x 0.75(H)	1 ~ 50 , 0.032768
	OSC-S22	2.5 x 2.0 x 0.95(H)	1 ~ 50 , 0.032768
	OSC-S3	3.2 x 2.5 x 1.2(H)	1 ~ 160 , 0.032768
	OSC-S5	5.0 x 3.2 x 1.3(H)	0.5 ~ 160 , 0.032768
	OSC-S7	7.0 x 5.0 x 1.4(H)	0.5 ~ 160 , 0.032768

LVDS			
Picture	Model	Dimension(mm)	Frequency Range (MHz)
	OSCLD-S3	3.2 x 2.5 x 1.2(H)	15 ~ 160
	OSCLD-S5	5.0 x 3.2 x 1.3(H)	15 ~ 160
	OSCLD-S7	7.0 x 5.0 x 1.4(H)	15 ~ 200

LVPECL			
Picture	Model	Dimension(mm)	Frequency Range (MHz)
	OSCLP-S3	3.2 x 2.5 x 1.2(H)	15 ~ 160
	OSCLP-S5	5.0 x 3.2 x 1.3(H)	15 ~ 160
	OSCLP-S7	7.0 x 5.0 x 1.4(H)	15 ~ 200

VCXO , TCXO , VCTCXO , OCXO

Picture	Model	Dimension (mm)/Package	Frequency Range (MHz)
	VX	SMD : 7.0x5.0,5.0x3.2,3.2x2.5 TH : 20.3x12.8(Full), 12.8x12.8(Half)	1 ~ 200
	TX & VTX	SMD : 11.4x9.6,7x5,5x3.2,3.2x2.5,2.5x2.0,2.0x1.6 TH : 20x13,18x12,13x13	1 ~ 150
	OX	TH : 51x51,39x39,36x27,25x25,20x20,20x13	1 ~ 170

Real Time Clock IC

Picture	Model	Dimension (mm)	Frequency Range (MHz)
	RC8025T	10.1 x 5.0 x 3.2(H)	32.768

Monolithic Crystal Filters (MCF)

Picture	Model	Dimension (mm)/Package	Frequency Range (MHz)
	MCF-SM756	SMD : 7.0 x 5.0 x 1.3 (H)	21.4 ~ 45
	MCF	TH : 49U,49T,UM1,UM5,12x9.5,15x9,38x19,.....	8 ~ 75



Ceramic Resonators

SMD			
Picture	Model	Dimension(mm)	Frequency Range (MHz)
	ZTACW / ZTTCW	2.5 x 2.0 x 1.5 (H) (2 Pads / 3 Pads)	20 ~ 50
	ZTACE / ZTTCE	3.2 x 1.3 x 1.0 (H) (2 Pads / 3 Pads)	8.0 ~ 12
	ZTACV / ZTTCV	3.7 x 3.1 x 1.2 (H) (2 Pads / 3 Pads)	6.0 ~ 50
	ZTACR / ZTTCR	4.5 x 2.0 x 1.2 (H) (2 Pads / 3 Pads)	4.0 ~ 8.0
	ZTACS / ZTTCS	4.7 x 4.1 x 1.6 (H) (2 Pads / 3 Pads)	6.0 ~ 50
	ZTACC / ZTACP	7.4 x 3.4 x 1.8 / 6.0 x 3.0 x 1.7 (2 Pads)	1.8 ~ 8.0
	ZTTCC / ZTTCP	7.4 x 3.4 x 1.8 / 6.0 x 3.0 x 1.7 (3 Pads)	1.8 ~ 8.0

Through - Hole			
Picture	Model	Dimension(mm)	Frequency Range (MHz)
	ZTA / ZTAWS	10.0 x 5.0 x 7.5(H) /10.0 x 4.0 x 5.5(H)	1.8 ~ 50
	ZTT / ZTTWS	10.0 x 5.0 x 10.0(H) / 10.0 x 4.0 x 5.5(H)	1.8 ~ 50

Ceramic Filters

SMD			
Picture	Model	Dimension(mm)	Frequency Range (MHz)
	LTCS10.7M	3.5 x 3.1 x 1.4(H)	10.7 & Customized
	LTCV10.7M	6.9 x 2.9 x 1.5(H)	10.7 & Customized
	LTC450/455	7.5 x 6.0 x 3.0(H)	0.450/0.455
	LWC450/455	7.5 x 11.5 x 3.0(H)	0.450/0.455

Through-Hole			
Picture	Model	Dimension(mm)	Frequency Range (MHz)
	LT10.7M	7.0 x 4.0 x 7.0(H)	10.7 & Customized
	SF4.5M-6.5M	10.0 x 4.0 x 8.0(H)	4.5/5.5/6.0/6.5,....
	LT450/455	7.0 x 8.0 x 8.0(H)	0.450/0.455
	LTM450/455	6.5 x 6.5 x 6.2(H)	0.450/0.455

Ceramic Discriminators

Picture	Model	Dimension (mm)/Package	Frequency Range (MHz)
	SMD:CDBC450/455	6.5 x 6.0 x 2.8	0.450/0.455
	TH:CDBM450/455	6.0 x 6.0 x 3 (H)	0.450/0.455
	TH:JT10.7	9.0 x 7.0 x 5 (H)	10.7

SAW Resonators

Picture	Model	Dimension (mm)/Package	Frequency Range (MHz)
	SR	SMD : SM336,SM446,SM534,SM558 TH:TO-39,TO-39L,F-11,F-11L,SF-712,...	105.5 ~ 1,100

SAW Filters

Picture	Model	Dimension (mm)/Package	Frequency Range (MHz)
	SF	SMD : SM115,SM214,SM224,SM336,SM446,SM534,SM558 TH : TO-39,F-11,SF-712,...	38 ~ 2,650



GPS/GNSS Modules — u-blox Chip Solution

YIC9 Series

GPS/GNSS Modules								
Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC91009EBxx	10.1 x 9.7 x 2.5(H)	3.3	—	—	V	UART/DDC	SMD
	YIC91513EBxx	15 x 13 x 2.4(H)	3.3	—	V	V	UART/DDC	SMD
	YIC91612EBxx	16 x 12 x 2.4(H)	3.3	—	V	V	UART/DDC/USB/SPI	SMD
	YIC91612EBFxx	16 x 12 x 2.4(H)	3.3	V	V	V	UART/DDC/USB/SPI	SMD
	YIC91613EBxx	16 x 13 x 2.4(H)	3.3	—	V	V	UART/DDC/USB/SPI	SMD

GPS/GNSS Antenna Modules								
Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC91513PGMxx	15 x 13 x 6.4(H)	3.3	—	V	V	UART	Cable Soldering
	YIC91818GMxx	18 x 18 x 7.1(H)	3.3	—	V	—	UART	Cable Soldering
	YIC91818GMLxx	18 x 18 x 5.1(H)	3.3	—	V	—	UART	Cable Soldering
	YIC92525GMxx	25 x 25 x 8.8(H)	3.3/5.0	—	V	—	UART	Cable Connector
	YIC92813GMxx	28 x 13 x 7.4(H)	3.3	—	V	—	UART	Cable Connector
	YIC92925GMxx	29 x 25 x 7.0(H)	3.3/5.0	—	V	—	UART	Cable Connector
	YIC92925GMxx-TJ	29 x 25 x 7.0(H)	3.3/5.0	—	V	—	UART	Piggyback

"XX" : 1.Blank : GPS 2.GG-U8 : GPS & GLONASS 3.GB-U8 : GPS & BEIDOU

GPS/GNSS Modules — Realtek Chip Solution

YIC8 Series

GPS/GNSS Modules								
Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC81009EBxx	10.1 x 9.7 x 2.1(H)	3.3	V	V	V	UART	SMD
	YIC81612EBxx	16 x 12 x 2.4(H)	3.3	V	V	V	UART	SMD

GPS/GNSS Antenna Modules								
Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC82828GMxx	28.1 x 28.1 x 7.2(H)	3.3/5.0	V	V	—	UART	Cable Connector

"XX" : 1.Blank : GPS 2.GG : GPS & GLONASS 3.GB: GPS & BEIDOU



GPS/GNSS Modules — MediaTek Chip Solution

YIC5 Series

GPS/GNSS Modules								
Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC51009EBxx	10.1 x 9.7 x 2.5(H)	3.3	●	V	V	UART	SMD
	YIC51513EBxx	15 x 13 x 2.4(H)	3.3	●	V	V	UART	SMD
	YIC51612EBxx	16 x 12 x 2.4(H)	3.3	●	V	V	UART	SMD
	YIC51613EBxx	16 x 13 x 2.4(H)	3.3	●	V	V	UART	SMD

GPS/GNSS Antenna Modules								
Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC51513PGMxx	15 x 13 x 6.8(H)	3.3	●	V	V	UART/GPIO	Cable Soldering
	YIC51616GMSxx	16 x 16 x 6.9(H)	3.3	●	V	V	UART	SMD
	YIC51818GMxx	18 x 18 x 6.8(H)	3.3	●	V	—	UART	Cable Soldering
	YIC52222GMxx	22 x 22 x 8.0(H)	3.3/5.0	●	V	—	UART/GPIO	Cable Soldering
	YIC52813GMxx	28 x 13 x 6.9(H)	3.3/5.0	●	V	—	UART	Cable Connector
	YIC52925GMxx	29 x 25 x 7.0(H)	3.3/5.0	●	V	—	UART	Cable Connector

"XX" : 1. -37 :MT3337,GPS 2. -39 : MT3339,GPS 3. GG-33 :MT3333, GPS & GLONASS 4. GB-33 :MT3333, GPS & BEIDOU

"●" : MT3337:ROM Base, MT3339 & MT3333:Flash Base

GNSS Receivers (G-Mouse)

GT GR GU GPS Series

UART/TTL Interface : GT GPS Series								
Picture	Model	Dimension(mm)	VCC(V)	Chips	Additional LNA/SAW	PPS	Mount	
	GT-902	45 x 38 x 14.3(H)	3.3/5.0	u-blox	V	●	Adhesive & Magnetic	
	GT-502			MediaTek	V	●		
	GT-903	55 x 46 x 14.5(H)	3.3/5.0	u-blox	V	●	Adhesive & Magnetic	
	GT-503			Realtek	V	●		
	GPS93030S	49.7 x 39.5 x 19.5 mm	3.3 / 5	u-blox	V	—	Adhesive & Magnetic	
	GPS53030S			Realtek	V	●		
	GPS83030S	50.08 x 39.5 x 19.5(H)	14.5(H) 3.3/5.0	Realtek	V	V	Adhesive & Magnetic	

RS232 Interface : GR Series								
Picture	Model	Dimension(mm)	VCC(V)	Chips	Additional LNA/SAW	PPS	Mount	
	GR-902	45 x 38 x 14.3(H)	3.3/5.0	u-blox	V	●	Adhesive & Magnetic	
	GR-502			MediaTek	V	●		
	GR-903	55 x 46 x 14.5(H)	3.3/5.0	u-blox	V	●	Adhesive & Magnetic	
	GR-503			Realtek	V	●		

USB Interface : GU Series								
Picture	Model	Dimension(mm)	VCC(V)	Chips	Additional LNA/SAW	PPS	Mount	
	GU-902	45 x 38 x 14.3(H)	3.3/5.0	u-blox	V	●	Adhesive & Magnetic	
	GU-502			MediaTek	V	●		
	GU-903	55 x 46 x 14.5(H)	3.3/5.0	u-blox	V	●	Adhesive & Magnetic	
	GU-503			Realtek	V	●		

"●" :Optional



Antennas-GPS/GNSS & MIMO Combo

ATG ATIG ATPG Series

GNSS & MIMO Combo External Antennas : ATG Series

Picture	Model	Dimension(mm)	Type	Mount
	ATG4336	43 x 36.4 x 13.5(H)	GPS/GLONASS/BEIDOU	Adhesive & Magnetic
	ATG4638	46 x 38 x 13(H)	GPS/GLONASS/BEIDOU	Adhesive & Magnetic
	ATGLTEW7220	Φ 72.5 x 20(H)	GPS + LTE/3G/GSM + WiFi	Adhesive & Magnetic
	ATG3G7214	Φ 72 x 14.3(H)	GPS + 3G/GSM	Adhesive, Magnetic
	ATG2.4G7214	Φ 72 x 14.3(H)	GPS + 2.4G WiFi	Adhesive, Magnetic
	ATG3GW84018	Φ 84 x 18(H)	GPS + 3G + WiFi	Permanent
	ATGAF8453	Φ 84 x 53.8 x 62(H)	GPS + AM/FM	Permanent

GPS/GNSS Internal Antennas : ATIG Series

Picture	Model	Dimension (mm) of Patch Antenna	Type
	ATIGxx	25x25,20x20,18x18,15x15,13x13,12x12,10x10,...	GPS/GLONASS/BEIDOU

GPS/GNSS Patch Antennas : ATPG Series

Picture	Model	Dimension (mm) of Patch Antenna	Type
	ATPG1575R	25x25,20x20,18x18,15x15,13x13,12x12,10x10,...	GPS
	ATPG1590R	25x25,18x18,15x15,12x12,10x10	GPS & GLONASS
	ATPG1568R	25x25	GPS & BEIDOU

Antennas-4G LTE/3G/GSM/WIFI/DAB/ISM/RFID/LoRa....

ATxx ATlxx ATIFxx Series

External Antennas : ATxx Series

4G/LTE Antennas :

Picture	Model	Frequency (MHz)	Mount
	ATLTE	698 ~ 960 / 1,710 ~ 2,690	Adhesive , Magnetic , Terminal , Permanent

3G/GSM Antennas :

Picture	Model	Frequency (MHz)	Mount
	AT3G	800 / 900 / 1,800 / 1,900 / 2,100	Adhesive , Magnetic , Terminal , Permanent

2.4G/5.8GHz WiFi Antennas :

Picture	Model	Frequency (MHz)	Mount
	AT2.4G	2,400 ~ 2,500	Adhesive , Magnetic , Terminal , Permanent
	AT5.8G	5,150 ~ 5,850	Adhesive , Magnetic , Terminal , Permanent
	AT2458G	2,400 ~ 2,500 / 5,150 ~ 5,850	Adhesive , Magnetic , Terminal , Permanent

PCB Internal Antennas : ATlxx Series

Picture	Model	Dimension (mm)	Type
	ATlxx	Customized	ATILTE ATl3G ATl2458G ATl5.8G ATl2.4G ATlGSM ,

Flexible PCB Internal Antennas : ATIFxx Series

Picture	Model	Dimension (mm)	Type
	ATIFxx	Customized	ATIFLTE ATIF3G ATIF2458G ATIF5.8G ATIF2.4G ATIFGSM ,

RF Cable Assemblies

Picture	Cable	Connector
	Micro Coaxial - 0.81mm,1.13mm,1.32mm,1.37mm,1.64mm Standard Coaxial - RG174,RG178,RG316,RG58,....	IPEX(U FL),SMA,MCX,MMCX,FAKRA,TNC,BNC,...