

[For Consumer]

Murata Line-up



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Connectivity Modules

Products	Series	Specifications			
		Chipset	Dimensions	Frequency	Etc
UWB modules	Type-2BP	(IC) NXP SR150	6.6 x 5.8 x 1.2mm(Max)	UWB Ch 5 & 9	Package type : LGA Supply Voltage : 1.8V Operating Temperature : -30 ~ 85 deg Interface : SPI 3 Antenna support (3D AoA, 2D AoA)
	Type-2DK	(IC) NXP SR040 (MCU) QN9090	19.6 x 18.2 x 2.3mm(Max)	UWB Ch 5 & 9	Package type : LGA Supply Voltage : 3.3V Operating Temperature : -30 ~ 85 deg Interface : UART/I2C/SWD/GPIOs * Tag Only
	Type-2AB	(IC) Qorvo QM33120W (MCU) Nordic nRF52840	10.5 x 8.3 x 1.44mm(Max)	UWB Ch 5 & 9 + Bluetooth LE 2.4GHz	Package type : LGA Supply Voltage : 2.5~3.6V (IC) Operating Temperature : -40 ~ 85 deg Interface : USB/UART/SPI/I2C
Cat.M1 module	Type-2SC	(IC) ALT1250	11.1 x 11.4 x 1.5mm (Max)	B3 / B5 / B8	Package type : LGA Supply Voltage : 2.2~4.35V (IC) Operating Temperature : -40 ~ 85 deg Interface : UART
mmWave module	Type-1YY	(IC) S5633	22.5 x 5.69 x 4.75mm (Max)	n257/n258/n261 (24.25 - 29.5GHz) n260(37 - 40GHz)	Product type : L-Shape (2 direction)

Sensors

Products	Part Number	Measurement	Specifications			Feature
			Range	Accuracy	Dimensions	
Soil sensor	SLT500X	EC	0~5 dS/m	3% (FS)	132.5 x 27 x 16.2 mm	<ul style="list-style-type: none"> Three sensors in one package High accuracy EC, Moisture Can measure only volume of fertilizer with original algorithm (pore EC) Robust structure : IP68 Interface : UART, RS232E, RS485, SDI-12, RS485MODBUS
		Temperature	-20~60°C	±1.0±1digit (r.d.g)		
		Moisture(VWC)	0~60%	±3% (FS)		
CO2 sensor	IMG-CA0012-00	CO2	0-3000ppm	±(50ppm + 5% of reading)Typ. ±(30ppm + 2.5% of reading)	67 x 92 x 20mm	<ul style="list-style-type: none"> NDIR sensing with Dual wavelength method Excellent temperature characteristics Low drift Maintenance free Moisture-proof coating

Picoleaf (Piezo Film Sensor)

Products	Part Number	Detect	Specifications			
			Sensitivity	Power Consumption	Dimensions	Advantages
Picoleaf™ (Piezo Film Sensor)	FMLUSSS-***	Human Touch Bio Signal (Heart Rate) Vibration Deformation	1um	<10uA	2x10 mm *Can be customized for special cases	<ul style="list-style-type: none"> Light, thin, short and small Flexible structure High sensitivity Non-pyroelectric Low power consumption Enables to use various UI

LF Antenna Coils

SA-X20 Type : 3D antenna coil

Part number	Frequency (kHz)	X axis		Y axis		Z axis		L Tolerance (%)
		Inductance L (mH)	Unloaded Q min	Inductance L (mH)	Unloaded Q min	Inductance L (mH)	Unloaded Q min	
MSA3RBA47A	125	4.7	18	4.7	18	7.2	18	±5
MSA3RBA006		6.3	20	6.3	20	9.0	18	±5
MSA3RBA72A		7.2	20	7.2	20	10.6	18	±5
MSA3RBA80A		8.0	20	8.0	20	13.0	20	±5

SA3M08 Type : 1D antenna coil

Part number	Frequency (kHz)	Inductance L (mH)	Unloaded Q min	L Tolerance (%)
1143AA-183J=P3	125	18.0	35	±5
1143AA-722J=P3		7.2	30	±5
1143AA-472J=P3		4.7	30	±5