

 Sensors & Modules

Products	Series	Specifications			
		Chipset	Dimensions	Frequency	Etc
60GHz Radar module	Type-1VM	AWR6843	30.0 x 28.0 x 3.0mm	60 to 64GHz FMCW	Interface : CAN / UART Antenna : Build in Patch Antennas (Can be customized) Operating Temp : -40 ~ 85 deg Operating Voltage : -5V
	Type-2VM	AWRL6432	35.0 x 35.0 x 1.3mm	57~64GHz	Interface : CAN / UART Antenna : Build in Patch Antennas (Can be customized) Operating Temp : -40 ~ 85 deg Operating Voltage : -5V
6DOF Sensor	HPC1	-	12.0 x 14.0 x 3.0mm	-	Measurement range(Gyro) : $\pm 62.5^{\circ}/s \sim \pm 300^{\circ}/s$ Measurement range(Acc) : $\pm 80m/s^2$ Operating Temp : -40 ~ 110 deg Interface : SPI Output data : 20bit and 16bit AEC-Q100, ISO26262, ASIL-D
BT/Wi-Fi Module	Type-1ZD	CYW89459	17.4 x 16.7 x 2.5mm	2412-2472MHz 5180-5825MHz	Interface : PCIe/UART/PCM Operating Temp : -40 ~ 85 deg Supply Voltage : 1.8V, 3.6V AEC-Q100
	Type-2BD	CYW89570	16.4 x 14.8 x 2.5mm	2412-2472MHz 5180-5825MHz 5925-7125MHz	Interface : PCIe/UART/PCM Operating Temp : -40 ~ 85 deg Supply Voltage : 1.8V, 3.6V AEC-Q100
	Type-1XT	QCA6595	22.6 x 22.6 x 2.6mm	2412-2472MHz 5180-5825MHz	Interface : PCIe/UART/PCM Operating Temp : -40 ~ 85 deg Supply Voltage : 1.8V, 2.2V, 3.3V AEC-Q100
	Type-2KJ	QCA6698	22.6 x 22.6 x 2.6mm	2412-2472MHz 5180-5825MHz 5925-7125MHz	Interface : PCIe/UART/PCM Operating Temp : -40 ~ 85 deg Supply Voltage : 1.8V, 3.3V, 0.95V, 1.35V, 1.90V AEC-Q100
	Type-1TA	88Q9098A	20.9 x 18.5 x 2.6mm	2412-2472MHz 5180-5825MHz	Interface : PCIe/UART/PCM Operating Temp : -40 ~ 85 deg Supply Voltage : 1.8V, 3.3V AEC-Q100
	Type-2DQ	AW690	17.4 x 16.7 x 2.6mm	2412-2472MHz 5180-5825MHz	Interface : PCIe/UART/PCM Operating Temp : -40 ~ 85 deg Supply Voltage : 1.8V, 3.3V AEC-Q100

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High Temperature Film Capacitor

Products	Series (Rated Voltage / Cap.)	AEC-Q200	Specifications				
			Dimensions(mm)				Features
			W	H	T	L	
HTFC single type	500V / 4uF	O	23.0	26.5	12.7	28.0	Operational Life : 125°C, Rated Voltage / 2000h Biased Humidity : 85°C / 85 % RH Rated Voltage 1000h Temperature Cycling : -40°C <-> 125°C 1000 cycles
	500V / 10uF	O	33.0	35.5	14.5	20.0	
	500V / 15uF	O	33.0	35.5	14.5	20.0	
	500V / 20uF	O	33.0	37.0	18.0	20.0	
	850V / 10uF	O	33.0	35.5	14.5	20.0	
	850V / 15uF	O	33.0	37.0	18.0	20.0	
	850V / 20uF	O	33.0	41.0	23.0	25.0	

Thermistor & Crystal

Products	Series	AEC-Q200	Specifications	
			Dimensions (mm)	Features
NTC Thermistor	NCU15 series	O	1005	SMD type. R25: 10k, 47k, 100kohm Operating temp.: -55°C 150°C
	NCU18 series	O	1608	SMD type. R25: 10k, 47k, 100k, 150k, 220k, 470kohm. Operating temp.: -55° C~150°C
	NCU03 series (Under development)	O	0603	SMD type. R25: 10kohm
	NCG18 series	O	1608	Glue mounting type. R25: 10k, 100kohm Operating temp.: -55°C~150°C
	NXFS series	O	1608	Lead type. R25: 3k, 10, 47k, 100kohm Operating temp.: -55°C~150°C
PTC Thermistor	PRF series	O	1608	For overheat sensing.
	PRG series	O	1608, 1212	For overcurrent Protection.
Crystal Units	XRCGB	O	2016	Freq.:24 to 48MHz., Total Tol.: ≤±75ppm
	XRCGE	O	2016	Freq.:20 to 50MHz., Total Tol.: ≤±50, 60ppm
	XRCGA	O	2016	High temp& High reliability. · Freq. :20MHz, Total Tol.: ±200ppm @150oC · Freq. :24~50 MHz, Total Tol: ≤± 60ppm@125oC

EMI Products

Category	Type	Series	Inductance Range	Rated Current Range	Size (mm)
Power inductor	Wire wound type	MDH	1.5uH - 1mH	340mA - 13A	6360 - 101100
		DEM	1.5uH - 47uH	2.1A - 11.2A	8080
		LQH	0.47uH - 220uH	240mA - 7.7A	2520 - 5050
	Metal type	DFE	0.15uH - 4.7uH	1.1A - 8.7A	2016 - 3225
	Multilayer type	LQM	0.22 - 100uH	160mA - 2A	1608 -2012
RF inductor	Wire wound type	LQW	1.3nH - 470nH	75mA - 3.2A	1005 - 1608
	Film type	LQP	0.6nH - 120nH	110mA - 1A	0603
	Multilayer type	LQG	0.7nH - 270nH	110mA - 1.2A	1005- 0608

CMCC (Common Mode Choke Coils)

Part Number	Signal speed	Interface	Size (mm)
DLW43SH Series	10Mbps	CAN / Flex Ray	4532
DLW32SH510XF2	8Mbps	CAN-FD / DCMR Class3	3225
DLW32SH101XF2	8Mbps	CAN-FD / DCMR Class3	3225
DLW32MH101XK2	50Mbps	A ² B	3225
DLW32MH201XK2	100Mbps	Ethernet 100 Base-T1	3225
DLW43MH201XK2	100Mbps	Ethernet 100 Base-T1	3225
DLM11SN_HZ2 Series	480Mbps	USB 2.0	1210
DLW21SH900HQ2	480Mbps	USB 2.0	2012
DLW32MH101XT2	1000Mbps	Ethernet 1000base-T1	3225
DLM11SN_HZ2 Series	1.5Gbps	LVDS	1210
DLW21SH_HQ2 Series	1.5Gbps	LVDS	2012
DLW21SH900HQ2	1.7, 6, 10Gbps	HDMI1.4, 2.3 / USV 3.1	2012