

SMD Chip Antenna & RF Filter



IMTECH Co., Ltd.

Tel : 82-31-459-5197

Fax : 82-31-459-5198

Mail : sales@imtcystal.com

Web : www.imtcystal.com

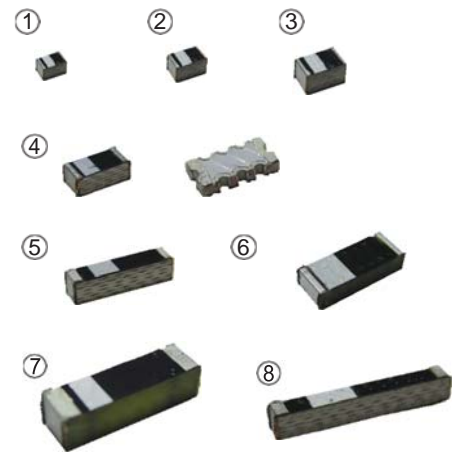
Chip Antenna – Monopole Type

Feature :

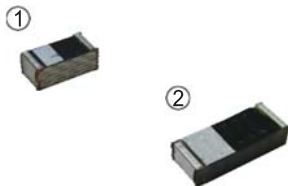
- Higher Reliability
- SMT Process
- Meet RoHS Spec
- Thick/Thin Film and Newly Patent Process
- Higher Gain and Higher Radiation Efficiency

BT / WIFI / Zigbee / ISM2.4GHz / Beacon

Part Number	Dimensions(mm)	Bandwidth(MHz)	Gain (dBi)
1. WAN1005F245M0X	1.00 x 0.50 x 0.50	100(Min),6.5dB	1.00
2. WAN1608F245M0X	1.60 x 0.80 x 0.50	100(Min),6.5dB	1.15
3. WAN2012F245M0X	2.00 x 1.20 x 1.25	100(Min),6.5dB	1.39
4. WAN3216F245M0X	3.20 x 1.60 x 1.25	100(Min),6.5dB	2.41
5. WAN5010F245M0X	5.00 x 1.00 x 1.25	100(Min), 10dB	3.09
6. WAN5020D245M0X	5.00 x 2.00 x 1.25	100(Min), 10dB	3.19
7. WAN7020L245M0X	7.00 x 2.00 x 1.95	100(Min), 10dB	3.64
8. WAN8010F245M0X	8.00 x 1.00 x 1.25	100(Min), 10dB	3.45



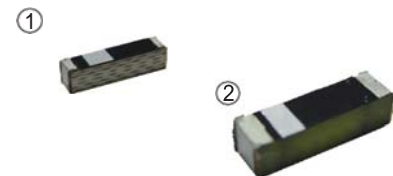
802.11 ac / ISM 5GHz



Part Number	Dimensions(mm)	Bandwidth(MHz)	Gain (dBi)
1. WAN3216F500M0X	3.20 x 1.60 x 1.25	700(Min),6.5dB	2.41
2. WAN5220F500M0X	5.20 x 2.00 x 1.25	100(Min), 10dB	4.63

WIFI / 802.11 b/n/g/ac (Dual Band , 2.4G+5G)

Part Number	Dimensions(mm)	Bandwidth(MHz)	Gain (dBi)
1. WAN5010FD25N0X	5.00 x 1.00 x 1.25	100(Min),10 dB 800(Min),6.5dB	3.98 4.63
2. WAN7020LD25N0X	7.00 x 2.00 x 1.95	170(Min),10 dB 800(Min),6.5dB	4.00 5.72



GPS / Glonass



Part Number	Dimensions(mm)	Bandwidth(MHz)	Gain (dBi)
WAN8010F157M0X	8.00 x 1.00 x 1.25	28(Min),10 dB	0.55

Others : 315MHz/433MHz/868MHz/915MHz , SUB-1G, NB-IoT , LoRa , SIGFOX

Part Number	Dimensions(mm)	Bandwidth(MHz)	Gain (dBi)
WAN1003F039M0X	10.0 x 3.00 x 1.23	25(Min), 10dB	1.32



Chip Antenna – PIFA Loop Type

Feature :

- Higher Reliability
- SMT Process
- Meet RoHS Spec
- Thick/Thin Film and Newly Patent Process
- Higher Gain and Higher Radiation Efficiency

BT / WIFI / Zigbee / ISM2.4GHz / Beacon

Part Number	Dimensions(mm)	Bandwidth(MHz)	Gain (dBi)
1. WAN1005F245C0X	1.00 x 0.50 x 0.45	100(Min),6.5dB	1.81
2. WAN1608F245C0X	1.60 x 0.80 x 0.45	100(Min),6.5dB	1.96
3. WAN2012F245C0X	2.00 x 1.20 x 0.45	85(Min),6.5dB	2.72
4. WAN3216F245C0X	3.20 x 1.60 x 0.45	120(Min),6.5dB	1.05



BT/WIFI + GPS (Dual Band , 2.4G+1.575G)



Part Number	Dimensions(mm)	Bandwidth(MHz)	Gain (dBi)
1. WAN3216F245E0X	3.20 x 1.60 x 0.45	15 (Min),10 dB 100(Min),6.5dB	1.40 0.06
2. WAN3216F245DAX	3.20 x 1.60 x 0.45	15 (Min),10 dB 100(Min),10 dB	1.78 2.33

WIFI / 802.11 b/n/g/ac (Dual Band , 2.4G+5G)

Part Number	Dimensions(mm)	Bandwidth(MHz)	Gain (dBi)
WAN3216FD25D04	3.20 x 1.60 x 0.45	100(Min),6.5dB 700(Min),10 dB	2.73 4.03



GPS / Glonass



Part Number	Dimensions(mm)	Bandwidth(MHz)	Gain (dBi)
WAN3216F157C0X	3.20 x 1.60 x 0.45	70(Min),6.5dB	1.75

Chip Antenna Loop Type

BT / WIFI / Zigbee / ISM2.4GHz / Beacon

Part Number	Dimensions(mm)	Bandwidth(MHz)	Gain (dBi)
WAN3216F245L0X	3.20 x 1.60 x 0.45	120(Min),6.5dB	1.15



Others : 315MHz/433MHz/868MHz/915MHz , SUB-1G, NB-IoT , LoRa , SIGFOX



Part Number	Dimensions(mm)	Bandwidth(MHz)	Gain (dBi)
WAN3216F039L0X	3.20 x 1.60 x 0.45	25(Min), 10dB	1.32












RF Filter/Balun Series



Feature :

- Higher Reliability
- SMT Process
- Meet RoHS Spec
- Small and Low Profile
- Lower Insertion Loss and Higher Attenuation

BT / WIFI / Zigbee / ISM2.4GHz / Beacon

Function	Part Number	Dimensions(mm)	Insertion Loss (dB)	Impedance (Ohm)	
Balun	WBA1608B245T02	1.60 x 0.80 x 0.60	1.30 (Max)	50	
Balance Filter	WBB2012B245T01	2.00 x 1.20 x 0.90	3.80 (Max)	CSR BC04,05	
Balance Filter	WBB2012B245T11	2.00 x 1.20 x 0.90	2.60 (Max)	MTK MT5931	
Band Pass Filter	WBF1608B245T02	1.60 x 0.80 x 0.60	1.80 (Max)	50	
Band Pass Filter	WBF1608B245T05	1.60 x 0.80 x 0.60	2.80 (Max)	50	
Band Pass Filter	WBF2012B245P06	2.00 x 1.20 x 0.80	2.50 (Max)	50	
Band Pass Filter	WBF2012B245T05	2.00 x 1.20 x 0.95	2.80 (Max)	50	
Low Pass Filter	WLF1608B245T01	1.60 x 0.80 x 0.60	0.70 (Max)	50	
Low Pass Filter	WLF2012B245T01	2.00 x 1.20 x 0.95	0.50 (Max)	50	

WIFI / 802.11 b/n/g/ac (Dual Band , 2.4G+5G)

Function	Part Number	Dimensions(mm)	Insertion Loss (dB)	Impedance (Ohm)	
Diplexer	WDP1608BD25T01	1.60 x 0.80 x 0.60	L Band :1.00 (Max) H Band :1.60 (Max)	50	
Diplexer	WDP1608BD25T02	1.60 x 0.80 x 0.60	L Band :1.00 (Max) H Band :1.60 (Max)	50	
Diplexer	WDP2012BD25T03	2.00 x 1.20 x 0.80	L Band :2.40 (Max) H Band :1.20 (Max)	50	

BT/WIFI + GPS (Dual Band , 2.4G+1.575G)

Function	Part Number	Dimensions(mm)	Insertion Loss (dB)	Impedance (Ohm)	
Diplexer	WDP2520BD12P01	2.50 x 2.00 x 0.87	L Band : 0.70 (Max) H Band :3.50 (Max)	50	