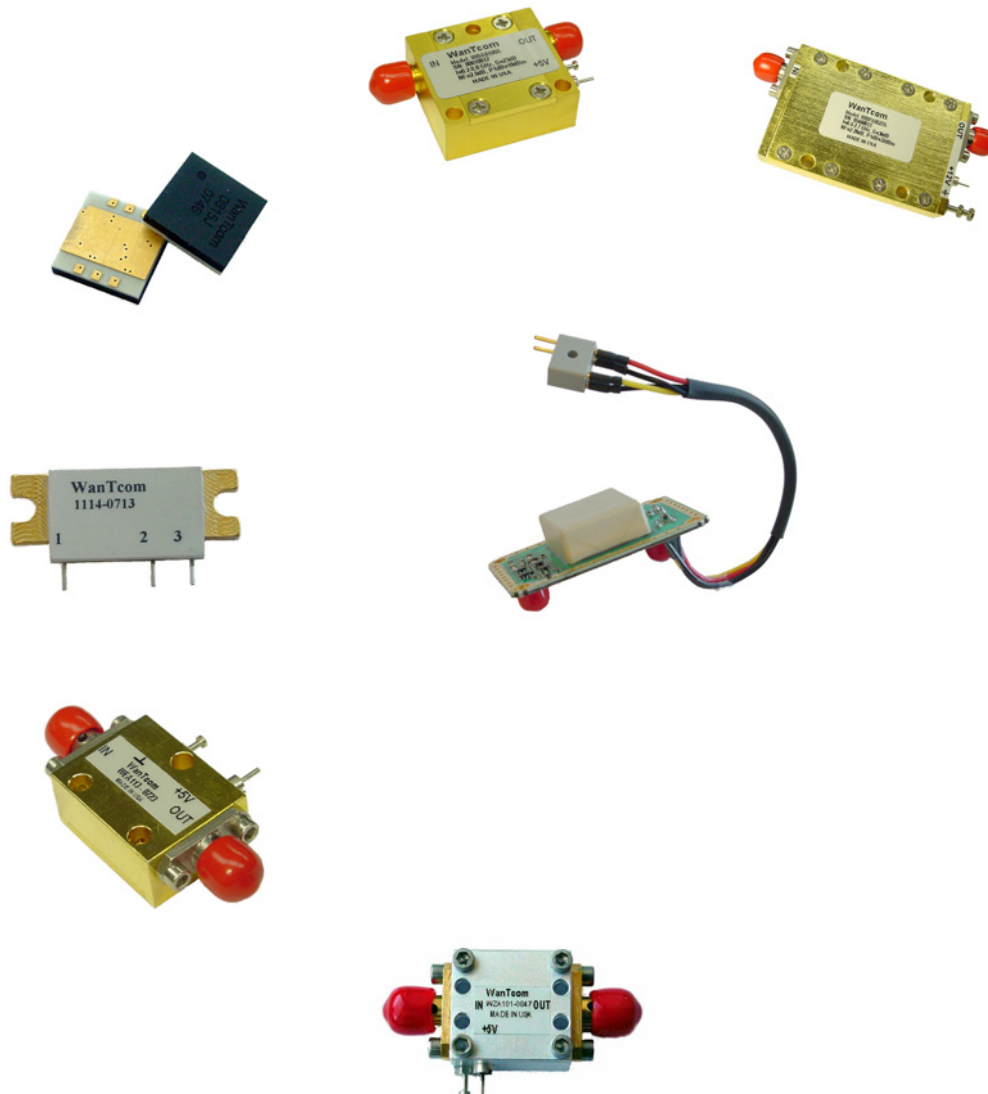




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REV C

Microwave and RF Amplifiers and Subsystems



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About WanTcom Inc

WanTcom offers turnkey amplifier solutions including super low noise amplifiers, high added power efficiency power amplifiers, and optimized subsystems. With proprietary amplifier technologies and micro electronic assembly techniques, WanTcom has been able to integrate super low noise, wide bandwidth, exceptional VSWR, and excellent linearity together into the microwave and RF products.

With our in house strong R&D and high volume manufacturing capabilities in USA facility, WanTcom has developed the unique product development and production platform to meet today's shift market demands.

Unique Custom Design and Manufacture Capabilities

WanTcom has demonstrated the ability to design and produce custom high performance and high quality amplifiers and subsystems to meet MIL-STD in very short lead-time and lowest cost for any quantity.

Our Commitment to Our Customers

- Reduce the time of new product development to market
- Reduce the time to production
- Reduce the time to the lowest product price

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Product Series

WHM	SMT , Low Noise And Power Amplifier	1
WLA	Connectorized, Single-Ended Low Noise Amplifier	2
WA	Connectorized, Balance Type Low Noise Amplifier	3
WBA	Connectorized, Wide Band And Low Noise Amplifier	4
WBPA	Connectorized, Wide Band Power Amplifier	5
WLPA	Connectorized, Low Noise Power Amplifier	6
WPA	Connectorized, High Power Amplifier	7
WPM	Flange Mount , Power Amplifier	8
WLLA	Connectorized, Low Noise Limiter Amplifier	9
WCA	Connectorized, 75 Ohm Low Noise Amplifier	10
WEA	Connectorized, Economic Low Noise Amplifier	11
WZA	Connectorized, Economic Low Noise Amplifier	12
WMA	SMT, Magnetic Radio Imaging (MRI) Pre-Amplifier	13

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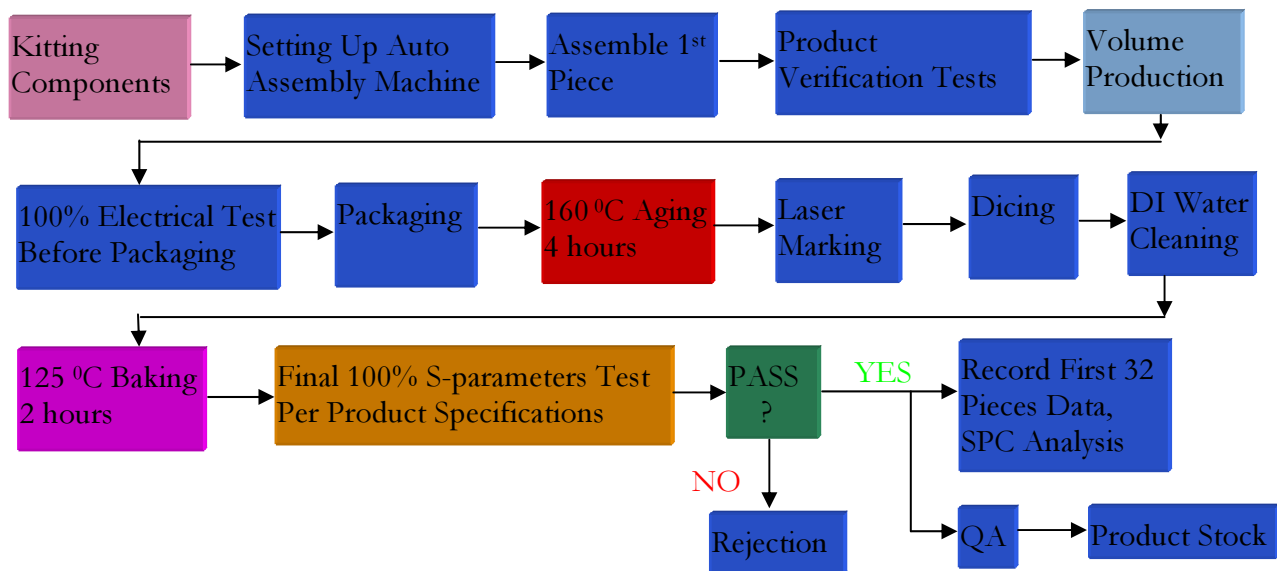
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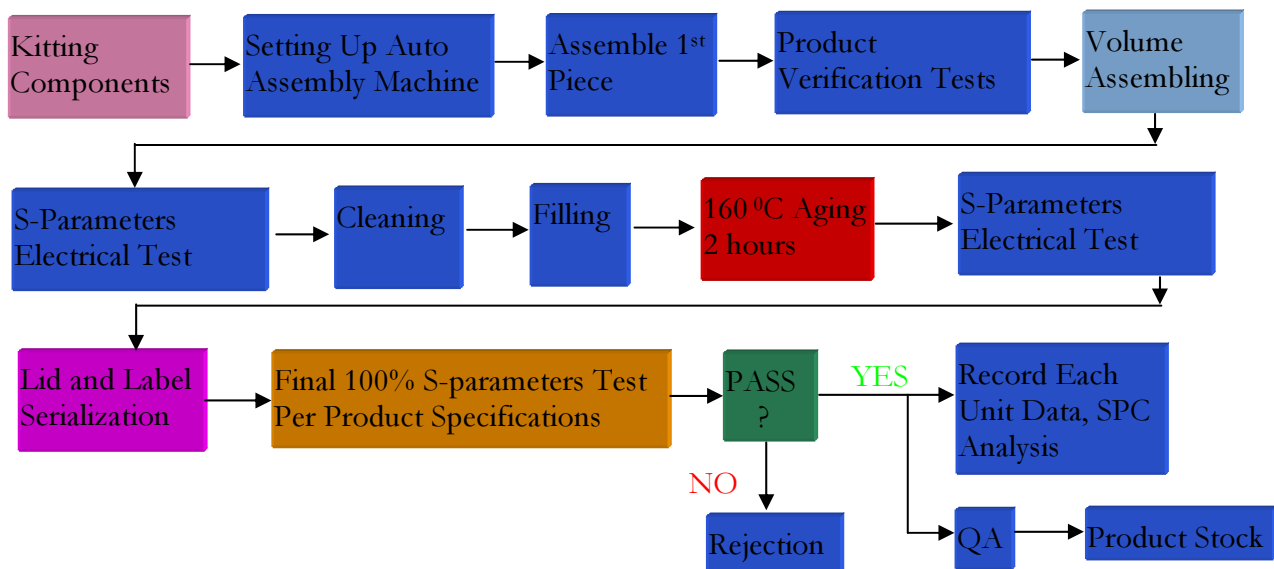
Summary of Production Processes

- Every Product is aged;
- Every Product S-parameters are tested.

WHM Series SMT LNA:



Connectorized amplifier:



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1. WHM Series SMT Low Noise And Power Amplifiers

Model Number	Application	Freq (GHz)		Gain	NF	SWR ₁	SWR ₂	P _{1dB}	OIP ₃	PAE	I _{dd}	V _{dd}	V _{gg}	R _{th}	Package
		Min	Max	(dB)	(dB)	Ratio	Ratio	(dBm)	(dBm)	%	(mA)	(V)	(V)	(°C/W)	
SMT PA															
WHM0002AE	SW Band, VHF	0.02	0.23	16.8	3.5	2.0:1	2.0:1	30.0	47	47.6	210	10	-1.5	32	WHM-3
WHM04-2045AE	UHF	0.40	0.47	20.5	4.7	2.0:1	1.5:1	36.0	48	47.0	850	10	-2.1	32	WHM-3
WHM0010AE	VHF	0.01	0.15	17.4	3.5	2.0:1	1.5:1	30.0	48	47.6	210	10	-1.5	32	WHM-3
WHM0104AE	VHF, UHF	0.10	0.40	17.0	3.2	2.0:1	2.0:1	32.0	45	--	400	10	-1.5	18	WHM-3
WHM0205AE	VHF, UHF	0.15	0.53	16.0	3	2.0:1	2.0:1	30.0	46	47.6	200	10	-1.5	32	WHM-3
WHM005-15AE	VHF, UHF	0.20	0.70	16	3.2	2.0:1	2.0:1	30.0	46	47	210	10	-1.5	32	WHM-3
WHM0715AE	UHF, Cellular, GSM, GPS	0.70	1.50	15.5	2.4	2.0:1	2.0:1	30.0	43.0	45.5	220	10	-1.5	32	WHM-3
WHM0013AE	SW Band, VHF, UHF, Cellular, GSM, GPS	0.02	1.30	13.5	4.5	2.0:1	2.0:1	31.0	45	30	300	10	-1.5	28	WHM-3
WHM0015AE	SW Band, VHF, UHF, Cellular, GSM, GPS	0.02	1.50	13.0	5.5	2.0:1	2.0:1	28.5	45	33.7	210	10	-1.5	32	WHM-3
WHM0006AE	SW Band, VHF, UHF, Cellular, GSM, GPS	0.02	0.60	17.2	2	2.0:1	2.0:1	28.5	45	33.7	200	8	-1.5	32	WHM-3
SMT LNA															
WHM02AE	Cellular, GSM, GPS, DCS, PCS, 3G, WiMax, C	0.02	4.20	10 ~ 20	0.7	1.4:1	1.4:1	15.0	28.0	--	10-40	2-4	--	215	3x3mm ²
WHM02R	Cellular, GSM, GPS, DCS, PCS, 3G, WiMax, C	0.02	4.20	10 ~ 20	0.8	1.4:1	1.4:1	20.0	34.0	--	60-75	3-4	--	215	3x3mm ²
WHM06AE	Cellular, GSM, GPS, DCS, PCS, 3G, WiMax, C	0.10	3.80	11 ~ 17	1.2	1.4:1	1.4:1	12.0	26	--	20-30	2-4	--	215	3x3mm ²
WHM0110AE	VHF, UHF, Cellular, GSM	0.10	1.10	20.0	0.65	1.25:1	1.3:1	17.0	34.0	--	60	5.0	--	215	WHM-1
WHM0003AE	SW Band, VHF	0.02	0.50	22.0	0.7	1.25:1	1.25:1	16.0	30	--	40	3.0	--	215	WHM-1M
WHM0206AE	VHF, UHF	0.20	0.60	21.0	1.5	1.5:1	1.5:1	24.0	34.0	--	120	5	--	110	WHM-5
WHM0520-18AE	Cellular, GSM, GPS, DCS, PCS, 3G	0.70	1.50	18.0	0.95	1.5:1	1.3:1	13.0	26.0	--	30	5.0	--	215	WHM-1
WHM0526AE	Cellular, GSM, GPS, DCS, PCS, 3G, ISM	0.50	2.60	15-20	0.8-1.0	1.5:1	1.5:1	16.0	31.0	--	60	5.0	--	215	WHM-1S
WHM2535-12AE	ISM, S band	2.50	3.50	14.0	0.9	1.4:1	1.25:1	14.0	31.0	--	30	5.0	--	215	WHM-1S
WHM25-1525AE	ISM Band	2.20	2.70	15.0	0.9	1.4:1	1.4:1	15.0	25.0	--	23	5.0	--	215	WHM-1
WHM0530AE	Cellular, GSM, GPS, DCS, PCS, 3G, ISM	0.50	3.00	15.5	1	1.5:1	1.5:1	10	20.0	--	20	5.0	--	215	WHM-1
WHM0525AE	Cellular, GSM, GPS, DCS, PCS, 3G, ISM	0.50	2.50	30.0	0.9	1.3:1	1.3:1	14.0	27.0	--	50	5.0	--	215	WHM-2
WHM0545AE	UHF, GPS, DCS, PCS, 3G, S, WiMax, C	0.50	4.00	26.0	1.1	1.5:1	1.35:1	13.0	26.0	--	50	5.0	--	215	WHM-2
WHM0814E	Cellular, GSM, GPS	0.80	1.40	36.0	0.55	1.25:1	1.25:1	17.0	30.0	--	70	5.0	--	215	WHM-4
WHM0815E	Cellular, GSM, GPS	0.80	1.30	30.0	1	1.3:1	1.3:1	5.0	20.0	--	30	5.0	--	215	WHM-11
WHM1045AE	GPS, DCS, PCS, 3G, S Band, C Band	1.00	4.20	25.0	1.3	1.5:1	1.5:1	13.0	25.0	--	50	5.0	--	215	WHM-2
WHM0242AE	VHF, UHF, GPS, DCS, PCS, 3G, S, WiMax, C	0.20	4.00	29.0	1.2	1.5:1	1.5:1	13.0	26.0	--	50	5.0	--	215	WHM-4
WHM13-3530A	GPS	1.00	2.00	38.0	0.8	1.25:1	1.25:1	13.0	27.0	--	55	5.0	--	215	WHM-6
WHM13-3530AE	GPS	1.00	2.00	33.5	0.9	1.3:1	1.3:1	13.0	25.0	--	40	3.0	--	215	WHM-2
WHM19-1730AE	PCS, 3G	1.70	2.20	16.0	0.9	1.25:1	1.3:1	13.0	28.0	--	33	5.0	--	215	WHM-1
WHM19-3032AE	PCS, 3G	1.70	2.20	30.0	0.8	1.22:1	1.22:1	16.0	32.0	--	85	5.0	--	215	WHM-2
WHM1535AE	S Band	1.50	3.50	27.0	1	1.3:1	1.3:1	13.0	25.0	--	50	5.0	--	215	WHM-2
WHM2040AE	S Band, C Band	1.80	4.00	26.0	1	1.3:1	1.3:1	13.0	26.0	--	50	5.0	--	215	WHM-2

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WHM2227AE	ISM, S band	2.20	2.70	27.0	1	1.4:1	1.4:1	6.0	16.0	--	25	5.0	--	215	WHM-2
WHM3043AE	S Band, C Band	3.00	4.20	25.0	1.1	1.35:1	1.35:1	13.0	--	--	50	5.0	--	215	WHM-2
WHM3035AE	S Band	3.00	3.70	26.0	1.2	1.22:1	1.3:1	13.0	27.0	--	50	5.0	--	215	WHM-2
WHM1722AE	PCS, 3G	1.70	2.20	30.0	0.6	1.25:1	1.25:1	19.0	32.0	--	90	5.0	--	215	WHM-4
WHM0510AE	VHF, UHF, Cellular, GSM	0.50	1.00	38.0	0.4	1.25:1	1.25:1	15.0	30.0	--	100	5.0	--	215	WHM-4
WHM0105AE	VHF, UHF, Pager	0.20	0.55	43.0	0.5	1.25:1	1.25:1	18.0	35.0	--	90	5.0	--	215	WHM-4
WHM14-3020AE	GPS	1.20	1.60	32.0	0.5	1.22:1	1.22:1	10.0	--	--	40	3.3	--	215	WHM-4
WHM14-3020BE	GPS	1.20	1.60	32.0	0.5	1.35:1	1.35:1	7.0	--	--	25	3.3	--	215	WHM-5
WHM14-3535AE	GPS	1.20	1.60	35	0.55	1.22:1	1.22:1	20.0	33.0	--	80	5.0	--	215	WHM-4
WHM2026AE	PCS, 3G, ISM	2.00	2.60	26.0	0.6	1.25:1	1.25:1	12.0	--	--	55	5.0	--	215	WHM-4
WHM25-3020AE	3G, ISM	2.20	2.70	27.0	1	1.3:1	1.3:1	6.0	--	--	25	5.0	--	215	WHM-2
WHM0913AE	GSM, GPS	0.90	1.30	18.0	0.7	1.35:1	1.35:1	15.0	30.0	--	50	5.0	--	215	WHM-11
WHM1318R	GPS, DCS, PCS	1.30	1.80	17.5	1	1.3:1	1.3:1	21.0	34.0	--	75	5.0	--	215	WHM-1
WHM0913R	GSM, GPS	0.80	1.25	19	0.8	1.3:1	1.3:1	19	34.0	--	75	5.0	--	215	WHM-1
WHM3542AE	C-band	3.70	4.20	13.0	1.2	1.4:1	1.4:1	14	25	--	30	5.0	--	215	WHM-7
WHM5065AE	WiMAX	5.00	6.50	22.0	0.9	1.5:1	1.5:1	10	23.0	--	40	3.0	--	215	WHM-11
SMT Limiter LNA															
WHM14-2035LE	GPS	1.14	1.62	20.0	0.9	1.5:1	1.5:1	20.0	--	--	65	5.0	--	215	WHM-4
WHM14-3020LE	GPS	1.20	1.60	32.0	0.7	1.22:1	1.22:1	10.0	--	--	40	3.3	--	215	WHM-4
WHM14-3035LE	GPS	1.14	1.62	31.0	0.7	1.22:1	1.22:1	20.0	--	--	120	5.0	--	215	WHM-4
WHM14-3035L	GPS	1.14	1.62	31.0	0.7	1.22:1	1.22:1	20.0	--	--	120	5.0	--	215	WHM-4
WHM1216AE	GPS	1.00	2.00	27.0	0.7	1.25:1	1.25:1	1.0	--	--	20	5.0	--	215	WHM-4
WHM30-2525LE	ISM, S band	2.50	3.50	27	0.75	1.5:1	1.5:1	14	26	--	120	5.0	--	215	WHM-7
WHM1045LE	GPS, DCS, PCS, 3G, S Band, C Band	1.00	4.20	25.0	1.3	1.5:1	1.5:1	13.0	25.0	--	55	5.0	--	215	WHM-2
WHM1045RLE	GPS, DCS, PCS, 3G, S Band, C Band	1.00	4.20	25.0	1.3	1.5:1	1.5:1	13.0	25.0	--	55	3.3	--	215	WHM-2
WHM2535LE	ISM, S band	2.50	3.50	14.0	1.1	1.4:1	1.4:1	14.0	30.0	--	30	5.0	--	215	WHM-7

2. WLA Series Connectorized Single-Ended Low Noise Amplifiers

Model Number	Application	Freq (GHz)		Gain	NF	SWR ₁	SWR ₂	P _{1dB}	OIP ₃	I _{dd}	V _{dd}	Package
		Min	Max	(dB)	(dB)	Ratio	Ratio	(dBm)	(dBm)	(mA)	(V)	
WLA02-3535A	VHF, UHF, Pager	0.20	0.50	35.0	0.6	1.25:1	1.25:1	15.0	35.0	100	7 - 35	WP-6
WLA08-2030A	UHF, Cellular, GSM	0.50	1.00	20	0.5	1.5:1	1.5:1	18	34.0	65	7 - 35	WP-5
WLA08-3045A	UHF, Cellular, GSM	0.82	0.98	35.0	0.65	1.25:1	1.25:1	29.0	45.0	280	9.0	WP-5
WLA08-4030A	UHF, Cellular, GSM	0.82	0.98	40.0	0.4	1.25:1	1.25:1	16.0	30.0	100	5.0	WP-5
WLA08-4045A	UHF, Cellular, GSM	0.82	0.98	42	0.4	1.25:1	1.25:1	26.0	45.0	220	9.0	WP-5
WLA14-2030AC	GPS	1.20	1.60	18.5	0.9	1.25:1	1.25:1	14.0	--	30	5.0	WP-5
WLA14-3030A	GPS	1.20	1.60	28.0	0.6	1.25:1	1.25:1	16.0	30.0	35.0	3.0	WP-5
WLA19-3030A	DCS, PCS, 3G, ISM	1.70	2.30	30.0	0.7	1.25:1	1.25:1	16.0	30.0	100	5.0	WP-5

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3. WA Series Connectorized **Balance** Type Low Noise Amplifiers

Model Number	Application	Freq (GHz)		Gain	NF	SWR ₁	SWR ₂	P _{1dB}	OIP ₃	I _{dd}	V _{dd}	Package
		Min	Max	(dB)	(dB)	Ratio	Ratio	(dBm)	(dBm)	(mA)	(V)	
WA LNA												
WA08-2433A	Cellular, GSM	0.82	0.98	21.0	0.6	1.22:1	1.22:1	18.0	38.0	125	7-30	WP-1
WA19-1733A	DCS, PCS, 3G	1.75	2.05	17.0	0.65	1.22:1	1.22:1	16.0	36.0	125	7-30	WP-1
WA19-3038A	DCS, PCS, 3G	1.70	2.00	30.0	0.8	1.22:1	1.22:1	20.0	38.0	200	7-30	WP-1
WA0405A	UHF	0.38	0.55	23	0.8	1.22:1	1.22:1	26	39.0	220	12.0	--
WA55-1530A	ISM, 5.2 - 5.8 GHz	5.20	5.80	15.0	0.8	1.22:1	1.22:1	12.0	23.0	45	5	WP-6

4. WBA Series Connectorized **Wide Band** And Low Noise Amplifiers

Model Number	Application	Freq (GHz)		Gain	NF	SWR ₁	SWR ₂	P _{1dB}	OIP ₃	OIP ₂	I _{dd}	V _{dd}	Package
		Min	Max	(dB)	(dB)	Ratio	Ratio	(dBm)	(dBm)	(dBc)	(mA)	(V)	
WBA0003A	LW, SW, VHF	0.00	0.30	30	1.25	1.25:1	1.25:1	9.5	--	--	45	5.0	WP-5
WBA0015A	0.001-12.0 GHz	0.00	12.00	30	2.5	1.60:1	1.60:1	23.0	--	--	220	9.0	WP-5
WBA0016A	SW, VHF, UHF, Cellular, GPS.	0.00	1.60	12.0	2	1.50:1	1.50:1	10.0	22.0	--	30	7 - 35	WP-6
WBA0022A	SW, VHF, UHF, Cellular, GPS, PCS, 3G	0.03	2.20	30	1	1.35:1	1.35:1	20.0	30.0	--	140	5.0	WP-5
WBA0030-15A	SW, VHF, UHF, Cellular, GPS, PCS, 3G, WiMAX	0.02	3.00	14	2	1.50:1	1.60:1	19.0	30.0	--	90	5.0	WP-6
WBA0030-30A	SW, VHF, UHF, Cellular, GPS, PCS, 3G, WiMAX	0.00	3.00	30	1.8	1.50:1	1.50:1	14.0	26.0	--	50	5.0	WP-5
WBA0030A	SW, VHF, UHF, Cellular, GPS, PCS, 3G, WiMAX	0.02	3.00	22	3	1.6	1.60:1	24.0	40.0	--	250	10	WP-6
WBA0102A	VHF	0.12	0.18	23	1.5	1.5:1	1.5:1	27.0	43.0	--	210	12.0	--
WBA0105A	VHF, UHF	0.10	0.50	17	2.5	1.6:1	1.6:1	30.0	50.0	--	280	12.0	WP-5
WBA0110A	SW, VHF, UHF, Cellular, GPS.	0.10	1.00	23	0.55	1.4:1	1.4:1	18.0	34.0	--	60	5.0	WP-5
WBA0110B	SW, VHF, UHF, Cellular, GPS.	0.10	1.00	23	0.55	1.4:1	1.4:1	18.0	34.0	--	60	5.0	--
WBA0121A	VHF, UHF, Cellular, GSM, GPS, DCS, PCS, 3G	0.10	2.10	25-35	1	1.25:1	1.3:1	15.0	30.0	--	100	5.0	WP-6
WBA0145A	VHF, UHF, Cellular, GPS, PCS, 3G, WiMAX, C	0.20	4.20	16.0	2	1.5:1	1.5:1	14.0	27.0	--	30	5.0	WP-5
WBA0180A	0.1 - 8.0GHz	0.10	8.00	23.0	2	2.0:1	2.0:1	11.0	20.0	--	50	5.0	WP-5
WBA0205A	VHF, UHF	0.20	0.50	23.0	0.6	1.3:1	1.3:1	14.0	28.0	--	35	5.0	WP-11
WBA0212A	VHF, UHF, Cellular, GSM	0.20	1.10	33.0	0.6	1.25:1	1.25:1	16.0	31.0	--	100	7 - 35	WP-6
WBA0235A	VHF, UHF, Cellular, GPS, PCS, 3G, WiMAX	0.20	3.30	16.5	1	1.4:1	1.4:1	12.0	24.0	--	30	7 - 35	WP-6
WBA0242A	VHF, UHF, Cellular, GPS, PCS, 3G, WiMAX, C	0.20	4.20	29	1.2	1.5:1	1.5:1	14.0	26.0	--	50	5.0	WP-5
WBA0320A	VHF, UHF, Cellular, GSM, GPS, DCS, PCS, 3G	0.35	2.00	26.0	0.65	1.5:1	1.5:1	20.0	35.0	--	110	12.0	--
WBA0510A	VHF, UHF, Cellular, GSM	0.50	1.00	38.0	0.5	1.25:1	1.25:1	15.0	30.0	--	100	5.0	WP-5
WBA0510AS	VHF, UHF, Cellular, GSM	0.50	1.00	38.0	0.4	1.25:1	1.25:1	15.0	30.0	--	100	5.0	WP-5
WBA0512AS	VHF, UHF, Cellular, GSM, GPS	0.50	1.25	38.0	0.3	1.25:1	1.25:1	19.0	30.0	--	100	5.0	WP-5
WBA0520B	UHF, Cellular, GSM, GPS, DCS, PCS, 3G	0.50	2.00	18.0	1	1.3:1	1.3:1	19.0	30.0	--	70	5.0	WP-5
WBA0520P	UHF, Cellular, GSM, GPS, DCS, PCS, 3G	0.50	2.10	25.0	1.8	1.8:1	1.8:1	18.0	30.0	-50	120	5.0	WP-6

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WBA0812A	X-band, Ku-Band	8.00	13.00	28.0	4.5	1.5:1	1.5:1	20	--	--	220	5.0	WP-10
WBA0820A	UHF, Cellular, GSM, GPS, DCS, PCS, 3G	0.80	2.10	18.8	1	1.5:1	1.5:1	15.0	28.0	--	30	5.0	WP-5
WBA0822A	UHF, Cellular, GSM, GPS, DCS, PCS, 3G	0.80	2.20	29.0	0.8	1.3:1	1.3:1	18.0	29.0	--	105	5.0	WP-5
WBA0918A	UHF, Cellular, GSM, GPS, DCS	0.90	1.70	19.0	1	1.3:1	1.3:1	18.0	32.0	--	65	5.0	WP-5
WBA1020-20A	UHF, Cellular, GSM, GPS, DCS, PCS, 3G	1.00	2.00	19.0	0.9	1.5:1	1.5:1	15.0	30.0	--	35	5.0	WP-10
WBA1020-50A	UHF, Cellular, GSM, GPS, DCS, PCS, 3G	1.00	2.00	48.0	0.9	1.5:1	1.4:1	15.0	28.0	--	105	5.0	WP-5
WBA1030A	Cellular, GSM, GPS, DCS, PCS, 3G, WiMAX	1.00	3.00	32.0	1.1	1.5:1	1.5:1	22.0	35.0	--	160	5.0	WP-5
WBA1040A	UHF, Cellular, GPS, PCS, 3G, WiMAX, C	1.00	4.00	45.0	0.7	1.5:1	1.5:1	13.0	24.0	--	65	5.0	WP-5
WBA1045B	UHF, Cellular, GPS, PCS, 3G, WiMAX, C	0.70	4.20	35.0	1	1.5:1	1.5:1	15.0	27.0	--	105	5.0	WP-5
WBA1330A	GPS, PCS, 3G, WiMAX	1.20	2.80	28.5	0.9	1.45:1	1.20:1	20.0	35.0	--	150	5.0	WP-5
WBA1530A	GPS, DCS, PCS, 3G, ISM	1.50	3.00	22.0	1	1.45:1	1.45:1	27.0	42.0	--	210	9.0	WP-5
WBA1535-25A	GPS, DCS, PCS, 3G, ISM	1.50	3.30	25.0	0.9	1.5:1	1.4:1	14.0	24.0	--	50	5.0	WP-5
WBA1722A	PCS, 3G	1.70	2.20	30.0	0.6	1.25:1	1.25:1	19.0	32.0	--	90	5.0	WP-5
WBA1730-40A	DCS, PCS, 3G, ISM	1.70	3.00	40.0	0.8	1.5:1	1.35:1	16.0	26.0	--	100	5.0	WP-5
WBA2026A	3G, ISM	2.00	2.60	26.0	0.65	1.25:1	1.25:1	13.0	26.0	--	60	5	WP-5
WBA2060-30A	PCS, 3G, WiMAX, C	2.00	6.00	30	0.85	1.5:1	1.5:1	2.0	--	--	60	5.0	WP-5
WBA2060-40A	PCS, 3G, WiMAX, C	2.00	6.00	38.0	0.8	1.5:1	1.5:1	13.0	24.0	--	65	5.0	WP-5
WBA2060A	PCS, 3G, WiMAX, C	2.00	6.00	25.0	0.75	1.5:1	1.5:1	12.0	24.0	--	40	5.0	WP-30
WBA2080A	PCS, 3G, WiMAX, C, X-Band	2.00	8.00	23.0	1	1.5:1	1.5:1	5.0	--	--	37.0	5.0	WP-30
WBA2237-40A	DCS, PCS, 3G, ISM	2.20	3.70	40.0	1	1.25:1	1.4:1	15.0	28.0	--	100	5.0	WP-5
WBA2535-12A	WiMAX, S-Band	2.50	3.50	14	1	1.4:1	1.4:1	13.0	--	--	30	7 - 35	WP-5
WBA3343-40A	DCS, PCS, 3G, ISM, C	3.30	4.20	40.0	1	1.25:1	1.25:1	15.0	28.0	--	100	5.0	WP-5
WBA80130A	8.0 - 13.0 GHz	8.00	13.00	22	2	1.8:1	1.8:1	10.0	--	--	60	5.0	WP-10E
WBA80180B	8.0 - 18.0 GHz	8.00	18.00	35	2	1.8:1	1.8:1	19.0	--	--	150	5.0	WP-10D
WBA80180C	7.0 - 18.0 GHz	7.00	18.00	23.0	2	1.8:1	1.8:1	10	--	--	55	5.0	WP-10

5. WBPA Series Connectorized Wide Band Power Amplifiers

Model Number	Application	Freq (GHz)		Gain	NF	SWR ₁	SWR ₂	P _{1dB}	OIP ₃	PAE	I _{dd}	V _{dd}	Package
		Min	Max	(dB)	(dB)	Ratio	Ratio	(dBm)	(dBm)	%	(mA)	(V)	
WBPA0510A	UHF, Cellular, GSM	0.47	0.96	30	3.0	1.6:1	1.6:1	36.0	48.0	--	980	10.0	WP-6
WBPA0527B	UHF, Cellular, GSM, GPS, DCS, PCS, 3G, ISM	0.50	2.70	28.0	1.3	1.5:1	1.5:1	27.0	43	--	220	12	WP-5
WBPA0540A	UHF, Cellular, GSM, GPS, DCS, PCS, 3G, S, C	0.45	3.80	45.0	1.2	1.5:1	1.5:1	24.0	40	--	230	12	WP-9
WBPA0921A	UHF, Cellular, GSM, GPS, DCS, PCS, 3G	0.80	2.10	20	2	1.4:1	1.4:1	32.0	43.0	--	500	10	WP-5
WBPA1116A	GPS	1.10	1.63	28.0	--	1.6:1	1.6:1	36.0	48.0	--	900	10	WP-6
WBPA1315A	GPS	1.30	1.50	21.0	--	1.5:1	1.5:1	36.5	48.0	--	1000	10	WP-6
WBPA1530A	GPS, DCS, PCS, 3G, ISM	1.50	2.80	38.0	1.5	1.5:1	1.5:1	33	45	--	600	10	WP-9
WBPA2040A	UHF, Cellular, GSM, GPS, DCS, PCS, 3G, S, C	2.00	4.00	35.0	2.2	1.6:1	1.6:1	32.0	44	--	550	10	WP-6
WBPA2127A	ISM	2.10	2.70	46.0	--	1.4:1	1.4:1	38.0	--	27.0	1900	12.0	WP-9
WBPA2224A	ISM	2.30	2.50	11	--	1.5:1	1.5:1	39.0	46.0	--	1500	10	WP-6
WBPA2225A	ISM	2.20	2.50	23.0	--	1.5:1	1.5:1	36.0	49.0	--	1050	10	WP-6

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WBPA2426B	ISM	2.40	2.60	35	1	1.25:1	1.25:1	35.0	49.0	--	1150	10	WP-6
WBPA2735A	ISM, S	2.70	3.40	24.0	--	1.5:1	1.5:1	33.0	--	--	500	10	WP-5
WBPA0105A	UHF	0.10	0.50	17.0	4.5	1.6:1	1.5:1	32.0	48.0	30	420	12.0	WP-5
WBPA04-2045A	UHF	0.38	0.53	20	--	1.5:1	1.5:1	36.0	45.0	40.0	800	10	WP-6
WBPA1517A	GPS	1.50	1.70	27.0	1.7	1.5:1	1.5:1	36.0	51.0	33	1150	10	WP-6
WBPA1822A	DCS, PCS, 3G	1.80	2.20	25.0	1.5	1.5:1	1.5:1	36.0	50.0	33	1150	10	WP-6
WBPA2426A	ISM	2.40	2.60	21.0	1.5	1.25:1	1.25:1	35.0	49.0	28	1100	10	WP-6
WBPA0527A	Wide Band PA	0.40	2.70	35	2.2	1.5:1	2:01	33	43	--	620	12	WP-9
WBPA0010A	0.03-0.09 GHz	0.03	0.09	18.7	--	1.25:1	1.5:1	36.0	50.0	--	830	10	WP-6
WBPA0520A	0.5 - 2.0 GHz	0.50	2.00	28.0	1.30	1.4:1	1.5:1	27.0	42.0	--	220	12.0	WP-5

6. WLPA Series Connectorized Low Noise Power Amplifiers

Model Number	Application	Freq (GHz)		Gain	NF	SWR ₁	SWR ₂	P _{1dB}	OIP ₃	I _{dd}	V _{dd}	Package
		Min	Max	(dB)	(dB)	Ratio	Ratio	(dBm)	(dBm)	(mA)	(V)	
WLPA08-1555A	UHF, Cellular, GSM	0.82	0.96	15.5	1.2	1.25:1	1.25:1	33.0	53.0	450	12	WP-1
WLPA08-1850A	UHF, Cellular, GSM	0.82	0.93	18.0	1	1.25:1	1.25:1	27.0	48.0	250	12	WP-1
WLPA08-2040C	UHF, Cellular, GSM	0.80	1.20	20.0	0.8	1.25:1	1.25:1	28.0	40.0	240	12	--
WLPA15-3045A	GPS, DCS	1.00	1.75	30.0	0.8	1.25:1	1.25:1	30	46.0	480	12	WP-1
WLPA19-3048A	DCS, PCS, 3G	1.75	2.05	30.0	0.7	1.25:1	1.25:1	27	46.0	350	12	WP-1
WLPA80-4540A	X Band	7.70	8.50	48.0	2.5	1.5:1	1.5:1	31.0	40.0	700	10	--

7. WPA Series Connectorized High Power Amplifiers

Model Number	Application	Freq (GHz)		Gain	NF	SWR ₁	SWR ₂	P _{1dB}	OIP ₃	PAE	I _{dd}	V _{dd}	Isolator	Package
		Min	Max	(dB)	(dB)	Ratio	Ratio	(dBm)	(dBm)	%	(mA)	(V)		
WPA0510A	UHF, Cellular	0.47	0.96	50.0	0.9	1.25:1	1.25:1	40	52	--	1600	26	Yes	----
WPA07-5055A	Cellular, GSM	0.70	0.90	50	1.5	1.25:1	1.25:1	46.0	55.0	30	0.7	24-30	Yes	WP-1C
WPA08-3055A	Cellular, GSM	0.82	0.96	30.0	7	1.25:1	1.25:1	47.0	55.0	30	640	24-30	Yes	WP-1C
WPA25-3060C	Cellular, GSM	2.40	2.60	33	2	1.25:1	1.25:1	45.0	--	45	2.0	12.0	Yes	2" x 3.45"

8. WPM Series Flange Mount Power Amplifiers

Model Number	Application	Freq (GHz)		Gain	NF	SWR ₁	SWR ₂	P _{1dB}	OIP ₃	PAE	I _{dd}	V _{dd}	Isolator	R _{th}	Package
		Min	Max	(dB)	(dB)	Ratio	Ratio	(dBm)	(dBm)	%	(mA)	(V)		(°C/W)	
WPM0510A	UHF, Cellular	0.47	0.96	31.0	4	1.5:1	1.5:1	38	49	27	750	28	--	2.2	WPM-1
WPM0509AE	UHF, Cellular	0.47	0.96	31.0	6	1.5:1	1.5:1	35	49	27	1150	10	--	5.0	WPM-2
WPM1011A	Avionic	1.00	1.10	31.0	4	1.5:1	1.5:1	38.0	48	35	750	28	--	2.2	WPM-1
WPM1114B	GPS	1.20	1.40	28.0	3.5	1.3:1	1.3:1	39.0	49.0	26.0	1800	10	YES	2.5	1" x 1.34"

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9. WLLA Series Connectorized Low Noise **Limiter** Amplifiers

Model Number	Application	Freq (GHz)		Gain	NF	SWR ₁	SWR ₂	P _{1dB}	OIP ₃	P _{in,MAX}	I _{dd}	V _{dd}	Package
		Min	Max	(dB)	(dB)	Ratio	Ratio	(dBm)	(dBm)	(dBm)	(mA)	(V)	
WLLA14-3030A	GPS	1.20	1.60	34.0	0.5	1.35:1	1.35:1	13.0	--	30	50	5.0	WP-5
WLLA14-3535A	GPS	1.10	1.60	35.0	0.6	1.25:1	1.35:1	13.0	26.0	24.0	80	5.0	WP-5
WLLA14-3535C	GPS	1.10	1.60	35.0	0.45	1.25:1	1.35:1	13.0	26.0	24.0	80	5.0	WP-5
WLLA1045A	GPS, DCS, PCS, 3G, S Band, C Band	1.00	4.20	26.0	1.3	1.5:1	1.5:1	15.0	26.0	30.0	50	5.0	WP-5

10. WCA Series Connectorized **75 Ohm** Low Noise Amplifiers

Model Number	Application	Freq (GHz)		Gain	NF	SWR ₁	SWR ₂	P _{1dB}	P _{in,MAX}	I _{dd}	V _{dd}	Package
		Min	Max	(dB)	(dB)	Ratio	Ratio	(dBm)	(dBm)	(mA)	(V)	
WCA05300A	VHF	0.05	0.2	24	0.5	1.5:1	1.5:1	8.0	5	40	7-25	WP-6
WCA05300B	VHF	0.05	0.2	24	0.6	1.5:1	1.5:1	8.0	30	40	7-25	WP-6

11. WEA Series Connectorized **Economic** Low Noise Amplifiers

Model Number	Application	Freq (GHz)		Gain	NF	SWR ₁	SWR ₂	P _{1dB}	OIP ₃	I _{dd}	V _{dd}	Package
		Min	Max	(dB)	(dB)	Ratio	Ratio	(dBm)	(dBm)	(mA)	(V)	
WEA101	SW Band, VHF	0.02	0.50	20	1	1.4:1	1.4:1	16.0	30	40	5.0	WP-6
WEA102	VHF, UHF, Cellular, GSM	0.10	1.10	20.0	0.8	1.4:1	1.4:1	16.0	32	60	5.0	WP-10E
WEA103	Cellular, GSM, GPS, DCS, PCS, 3G	0.70	1.50	18.0	1	1.5:1	1.5:1	13.0	25	30	5.0	WP-10E
WEA104	ISM Band	2.20	2.70	15.0	1.1	1.5:1	1.5:1	13.0	25.0	23	5.0	WP-10E
WEA105	GPS	1.00	2.00	33.5	1.1	1.4:1	1.4:1	13.0	25.0	40	5.0	WP-10E
WEA106	PCS, 3G	1.70	2.20	24.0	1	1.4:1	1.4:1	16.0	32.0	85	5.0	WP-10E
WEA107	Cellular, GSM, GPS, DCS, PCS, 3G, ISM	0.50	2.50	30.0	1	1.4:1	1.4:1	14.0	26	50	5.0	WP-10E
WEA108	Cellular, GSM, GPS, DCS, PCS, 3G, ISM	0.50	3.00	15.0	1.2	1.5:1	1.5:1	10	20.0	20	5.0	WP-10E
WEA109	S Band	1.50	3.50	26.0	1.2	1.5:1	1.5:1	13.0	25.0	50	5.0	WP-10E
WEA110	S Band	3.00	3.70	25.0	1.2	1.4:1	1.4:1	13.0	26.0	50	5.0	WP-10E
WEA111	S Band, C Band	1.80	4.00	25.0	1.2	1.5:1	1.5:1	13.0	26.0	50	5.0	WP-10E
WEA112	GPS, DCS, PCS, 3G, S Band, C Band	1.00	4.20	25.0	1.5	1.5:1	1.5:1	13.0	25.0	50	5.0	WP-10E
WEA113	Cellular, GSM, GPS, DCS, PCS, 3G, ISM	0.50	2.60	15-20	0.8-1.0	1.5:1	1.5:1	16.0	31.0	60	5.0	WP-10E
WEA114	GSM, GPS	0.80	1.25	19	0.8	1.3:1	1.3:1	19	34.0	75	5.0	WP-10E
WEA115	UHF, GPS, DCS, PCS, 3G, S, WiMAX, C	0.50	4.00	26.0	1.1	1.5:1	1.35:1	13.0	26.0	50	5.0	WP-10E
WEA116	3G, ISM	2.20	2.70	27.0	1	1.3:1	1.3:1	6.0	--	25	5.0	WP-10E

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12. WZA Series Connectorized **Economic** Low Noise Amplifiers

Model Number	Application	Freq (GHz)		Gain	NF	SWR ₁	SWR ₂	P _{1dB}	OIP ₃	I _{dd}	V _{dd}	Package
		Min	Max	(dB)	(dB)	Ratio	Ratio	(dBm)	(dBm)	(mA)	(V)	
WZA101	SW Band, VHF	0.02	0.50	20	0.8	1.5:1	1.5:1	12.0	25.0	25.0	5.0	WP-30
WZA102	VHF, UHF, Cellular, GSM	0.10	1.00	19	0.8	1.5:1	1.5:1	12.0	25.0	25.0	5.0	WP-30
WZA103	VHF, UHF, Cellular, GSM, GPS	0.10	1.60	19	0.9	1.5:1	1.5:1	12.0	25.0	25.0	5.0	WP-30
WZA104	UHF, Cellular, GSM, GPS	0.80	1.30	18.0	0.8	1.5:1	1.5:1	12.0	25.0	25.0	5.0	WP-30
WZA105	GPS	1.10	1.60	18.0	0.8	1.5:1	1.5:1	12.0	25.0	25.0	5.0	WP-30
WZA106	PCS, 3G	1.70	2.20	17.0	0.8	1.5:1	1.5:1	12.0	25.0	25.0	5.0	WP-30
WZA107	ISM	2.20	2.70	16.0	0.8	1.5:1	1.5:1	12.0	25.0	25.0	5.0	WP-30
WZA108	ISM, C-band	2.70	3.50	15.0	1	1.5:1	1.5:1	12.0	22.0	20	5.0	WP-30
WZA109	3G, ISM, C-band	2.00	4.00	14.0	1.2	1.5:1	1.5:1	12.0	22.0	20	5.0	WP-30
WZA110	GPS, 3G, ISM, C-band	1.00	4.00	14.0	1.3	1.5:1	1.5:1	12.0	22.0	20	5.0	WP-30
WZA201	SW Band, VHF	0.02	0.50	21	1	1.5:1	1.5:1	18.0	65.0	30.0	5.0	WP-30
WZA202	VHF, UHF, Cellular, GSM	0.10	1.00	19	0.9	1.5:1	1.5:1	18.0	65.0	30.0	5.0	WP-30
WZA203	VHF, UHF, Cellular, GSM, GPS	0.10	1.60	19	1	1.5:1	1.5:1	18.0	65.0	30.0	5.0	WP-30
WZA204	UHF, Cellular, GSM, GPS	0.80	1.30	18.0	0.9	1.5:1	1.5:1	18.0	65.0	30.0	5.0	WP-30
WZA205	GPS	1.10	1.60	18.0	0.9	1.5:1	1.5:1	18.0	65.0	30.0	5.0	WP-30
WZA206	PCS, 3G	1.70	2.20	17.0	0.9	1.5:1	1.5:1	18.0	65.0	30.0	5.0	WP-30
WZA207	ISM	2.20	2.70	16.0	0.9	1.5:1	1.5:1	18.0	65.0	30.0	5.0	WP-30
WZA301	GPS, PCS, 3G	1.00	2.00	33.5	0.9	1.3:1	1.3:1	13.0	25.0	40	3.0	WP-30
WZA302	Cellular, GSM, GPS	0.80	1.50	28.0	1.25	1.22:1	1.22:1	1.0	--	20	5.0	WP-30
WZA303	GPS	1.20	1.60	32.0	0.5	1.35:1	1.35:1	7.0	--	25	3.3	WP-30
WZA304	Cellular, GSM, GPS, DCS, PCS, 3G, ISM	0.50	2.50	30.0	0.9	1.3:1	1.3:1	14.0	27.0	50	5.0	WP-30
WZA305	S Band	1.50	3.50	27.0	1	1.3:1	1.3:1	13.0	25.0	50	5.0	WP-30
WZA306	S Band	3.00	3.70	26.0	1.2	1.22:1	1.3:1	13.0	27.0	50	5.0	WP-30
WZA307	GPS, DCS, PCS, 3G, S Band, C Band	1.00	4.20	25.0	1.3	1.5:1	1.5:1	13.0	25.0	50	5.0	WP-30
WZA308	UHF, GPS, DCS, PCS, 3G, S, WuMax, C	0.50	4.00	26.0	1.1	1.5:1	1.35:1	13.0	26.0	50	5.0	WP-30
WZA309	S Band, C Band	1.80	4.00	26.0	1	1.3:1	1.3:1	13.0	26.0	50	5.0	WP-30

13. WMA Series SMT Magnetic Radio Imaging (**MRI**) Pre-Amplifiers

Model Number	Application	Freq (MHz)		Gain	NF	SWR ₁	SWR ₂	P _{1dB}	OIP ₃	Z _{in}	I _{dd}	V _{dd}	Package
		Min	Max	(dB)	(dB)	Ratio	Ratio	(dBm)	(dBm)	(Ohm)	(mA)	(V)	
WMA1R5A	MRI	63.8	63.8	28.0	0.45	--	1.2:1	8.0	20	1.5	18	7-11	0.6" x 0.4"
WMA1R5A-R5	MRI	63.8	63.8	28.0	0.45	--	1.2:1	8.0	20	0.5	18	7-11	0.6" x 0.4"
WMA3RA	MRI	127.8	127.8	28.0	0.45	--	1.2:1	8.0	20	1.5	18	7-11	0.6" x 0.4"
WMA3RA-R5	MRI	127.8	127.8	28.0	0.45	--	1.2:1	8.0	20	0.5	18	7-11	0.6" x 0.4"
WMA50A1R5	MRI	48	65	26.0	0.45	1.6:1	1.3:1	12.0	26.0	50	40	7-35	WP-6
WMA50A1R5-00	MRI	48	65	26.0	0.45	1.6:1	1.3:1	12.0	26.0	50	40	7-35	PCB Only
WMA50A3R	MRI	120	130	26.0	0.45	1.6:1	1.3:1	12.0	26.0	50	40	7-35	WP-6
WMA50A3R-00	MRI	120	130	26.0	0.45	1.6:1	1.3:1	12.0	26.0	50	40	7-35	PCB Only

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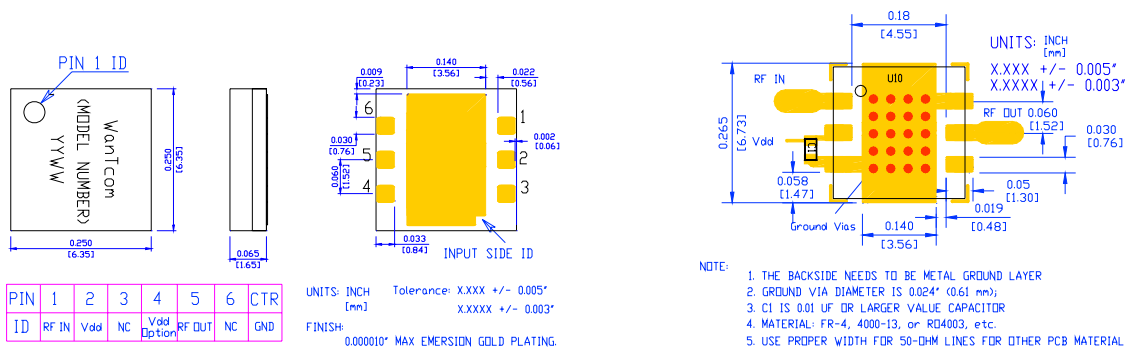
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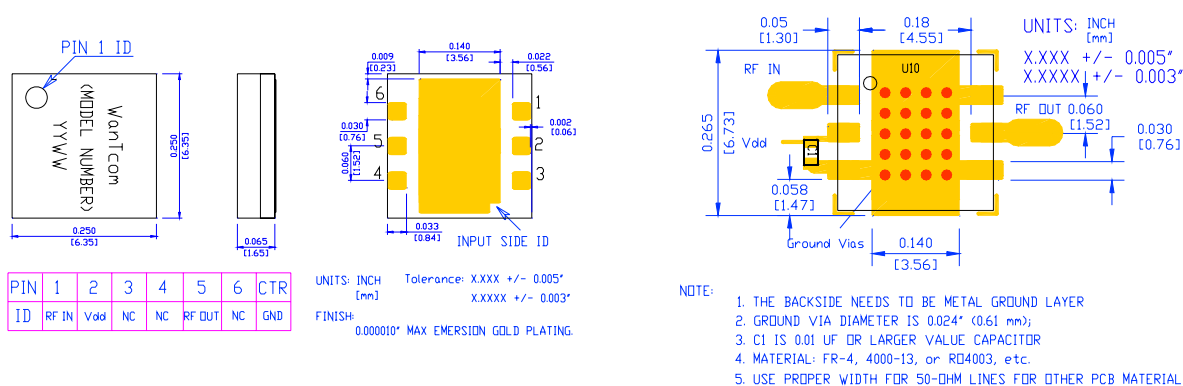
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Package Outlines and Foot Prints:

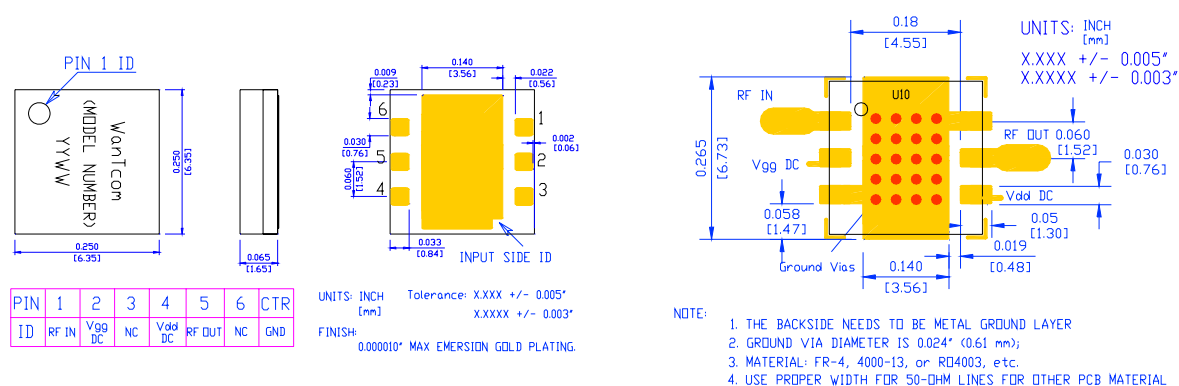
1. WHM-1



2. WHM-1S



3. WHM-1M



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[illegible]

Figure 1: PCB layout dimensions for the WMT-0101. The figure includes three views: a top view of the PCB showing dimensions like 0.200 [5.08] for the top edge, 0.400 [10.16] for the height, and 0.060 [1.52] for the top pad width. It also shows a side view with a thickness of 0.085 [2.16] and a cross-section view with dimensions like 0.056 [1.42] for the top pad and 0.030 [0.76] for the bottom pad. A note specifies that the backside needs to be a metal ground layer and provides a list of materials and tolerances.

UNITS: INCH [mm] Tolerance: XXXX +/- 0.005" XXXXX +/- 0.003"

FINISH: 0.000010" MAX EMERSION GOLD PLATING.

NOTE:

1. THE BACKSIDE NEEDS TO BE METAL GROUND LAYER
2. GROUND VIA DIAMETER IS 0.024" (0.61 mm);
3. C1 IS 0.01 UF OR LARGER VALUE CAPACITOR
4. MATERIAL: FR-4, 4000-13, RD4003, etc.
5. USE PROPER WIDTH FOR 50-OHM LINES FOR OTHER PCB MATERIAL

Top View Dimensions:

- Overall Width: 0.500 [12.70]
- Mounting Hole Diameter: 0.080 [2.03]
- RF IN Pad Width: 0.029 [0.74]
- Vdd Pad Width: 0.040 [1.02]
- OUT Pad Width: 0.029 [0.74]
- Internal Spacing: 0.358 [9.09]

Side View Dimensions:

- Signal Layer Thickness: 0.36 [9.09]
- Plated Via Diameter: 0.030 [0.76]
- Ground Layer Thickness: 0.03 [0.74]
- Overall Thickness: 0.29 [7.34]

Note:

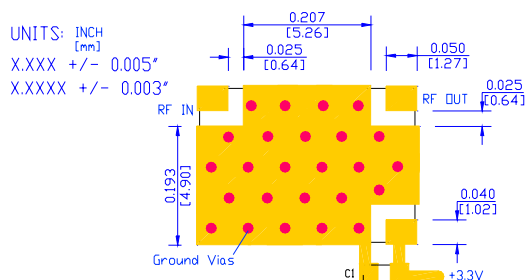
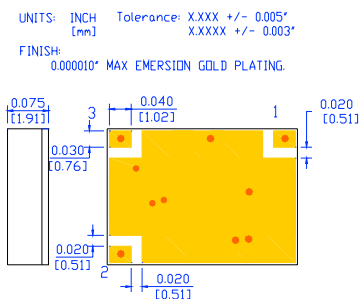
- THE BACKSIDE NEEDS TO BE METAL GROUND LAYER
- GROUND VIA DIAMETER IS 0.024" (0.61 mm).
- C1 IS 0.01 uF OR LARGER VALUE CAPACITOR
- MATERIAL: FR-4, 4000-13, or RD4003, etc.
- USE PROPER WIDTH FOR 50-OHM LINES FOR OTHER PCB MATERIAL

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Diagram of the WanTcom 14-3020B module showing dimensions and pin connections. The module is a rectangular component with a circular pin 1 on the left side. The dimensions are indicated by blue arrows: the width is 0.350 inches [8.89] and the height is 0.250 inches [6.35]. The pin 1 is labeled 'Pin 1 ID'. The module is labeled 'WanTcom 14-3020B [YYYWW]'.

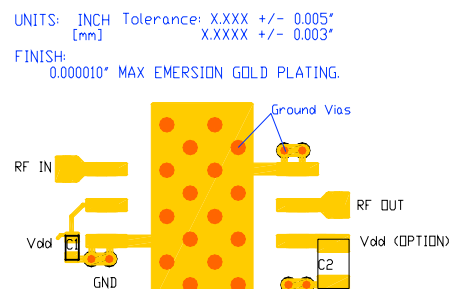
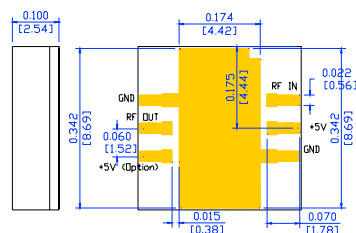
PIN	1	2	3	CNTR
FCNTR	RF	IN	V _{DD} RF	DUT1 GND



- NOTE:
1. THE BACKSIDE NEEDS TO BE METAL GROUND LAYER
 2. GROUND VIA DIAMETER IS 0.016" (0.41 mm);
 3. MATERIAL: FR-4, N4000-13, or RD4003, etc.
 4. USE PROPER WIDTH FOR 50-OHM LINES FOR OTHER PCB MATERIAL
 5. C1: 0.01uF, X7R, Ceramic

Diagram of a rectangular label with dimensions and text:

- Top text: UNITS: [INCH Tolerance: XXXX +/- 0.005" [mm] XXXX +/- 0.003"]
- Second line text: F[NIS# 0.000010" MAX EMERSION GOLD PLATING.
- Dimensions:
 - Width: 0.350 (8.89)
 - Height: 0.350 (8.89)
- Label Content:
 - WanTcom
 - (Part No)
 - YYWW
- Feature: A circle with a line pointing to it, labeled INPUT ID.



- NOTE:
1. THE BACKSIDE NEEDS TO BE METAL GROUND LAYER
 2. GROUND VIA DIAMETER IS 0.024" (0.61 mm);
 3. C1 & C2 ARE 0.01 UF OR LARGER VALUE CAPACITOR
 4. MATERIAL: FR-4, 4000-13, or RD4003, etc.
 5. USE PROPER WIDTH FOR 50-OHM LINES FOR OTHER PCB MATERIAL.

UNITS: INCH Tolerance: XXXX +/- 0.005"
[mm] XXXXX +/- 0.003"

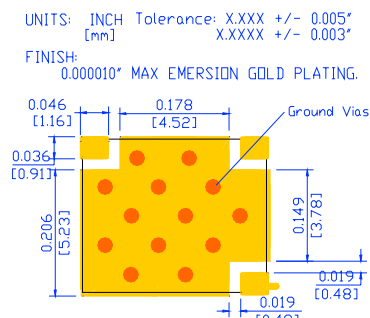
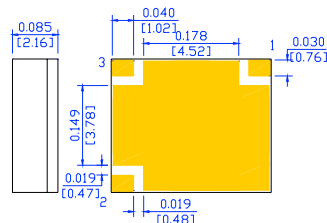
FINISH: 0.00010" MAX EMERSION GOLD PLATING.

INPUT ID

0.300
[7.62]

0.250
[6.35]

WanTcom
[MODEL
YYWW]



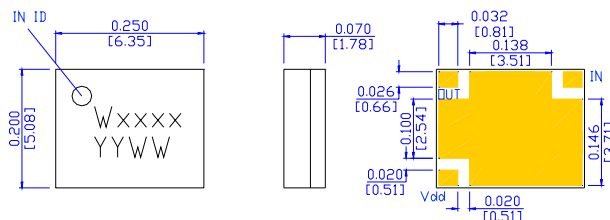
- NOTE:
1. THE BACKSIDE NEEDS TO BE METAL GROUND LAYER
 2. GROUND VIA DIAMETER IS 0.024" (0.61 mm);
 3. MATERIAL: FR-4, 4000-13, or RD4003, etc.
 4. USE PROPER WIDTH FOR 50-OHM LINES FOR OTHER PCB MATERIAL

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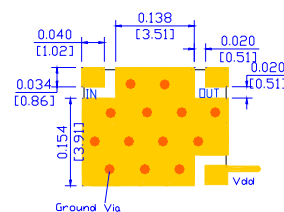
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10. WHM-11



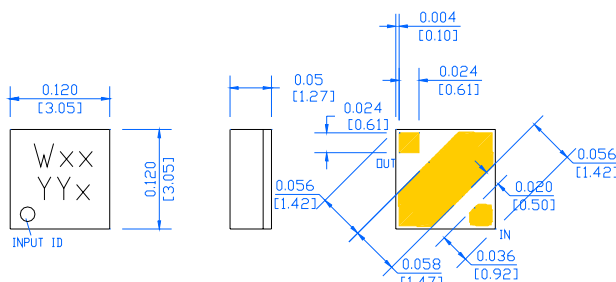
UNITS: INCH Tolerance: X.XXX +/- 0.005"
[mm] X.XXXX +/- 0.003"
FINISH: 0.000010" MAX EMERSION GOLD PLATING.

UNITS: INCH Tolerance: X.XXX +/- 0.005"
[mm] X.XXXX +/- 0.003"
FINISH: 0.000010" MAX EMERSION GOLD PLATING.

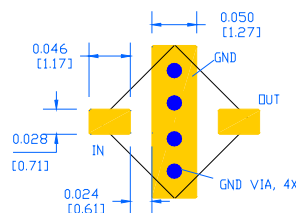


NOTE:
1. THE BACKSIDE NEEDS TO BE METAL GROUND LAYER
2. GROUND VIA DIAMETER IS 0.024" (0.61 mm);
3. MATERIAL: FR-4, 4000-13, or RD4003, etc.
4. USE PROPER WIDTH FOR 50-OHM LINES FOR OTHER PCB MATERIAL

11. 3 x 3 mm²



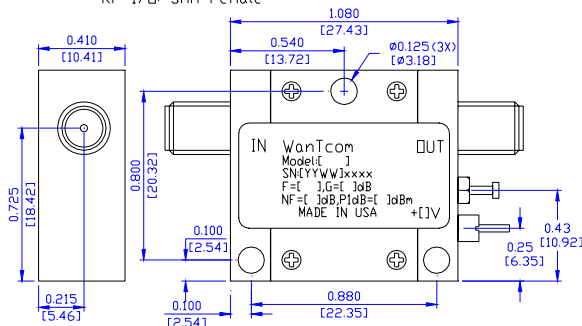
UNITS: INCH Tolerance: X.XXX +/- 0.005"
[mm] X.XXXX +/- 0.003"
FINISH: 0.000010" MAX EMERSION GOLD PLATING.



1. THE BACKSIDE NEEDS TO BE METAL GROUND LAYER
2. GROUND VIA DIAMETER IS 0.024" (0.61 mm);
3. MATERIAL: FR-4, 4000-13, or RD4003, etc.
4. USE PROPER WIDTH FOR 50-OHM LINES FOR OTHER PCB MATERIAL

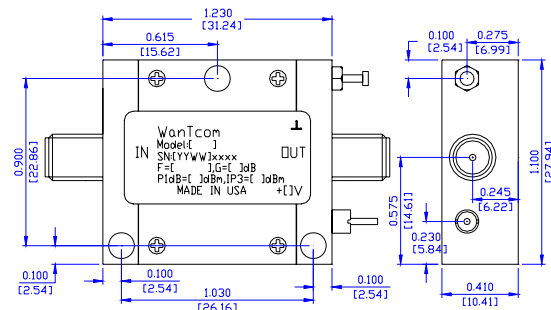
12. WP-5

UNITS: INCH [mm]
Base Material: Brass.
Finish: Gold Plating.
RF I/D: SMA Female



13. WP-6

UNIT: INCH [mm]
Base Material: Brass.
Finish: Gold Plating.
RF I/D: SMA Female
Tolerance: X.XXX +/- 0.003



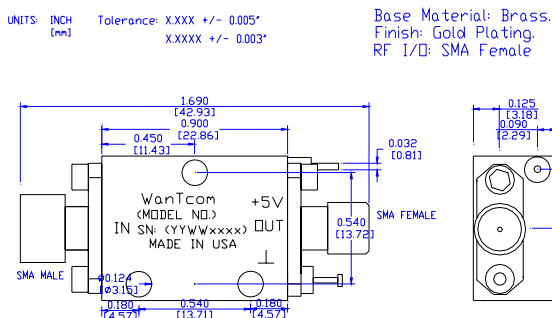
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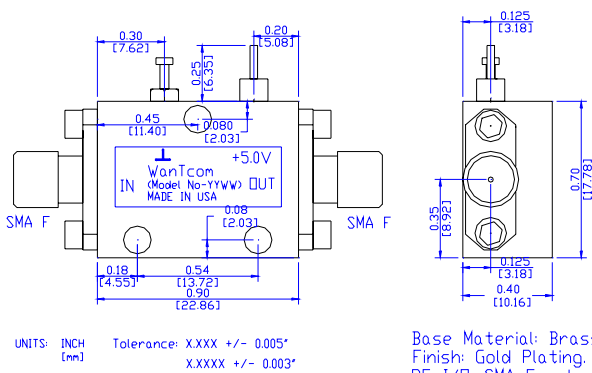


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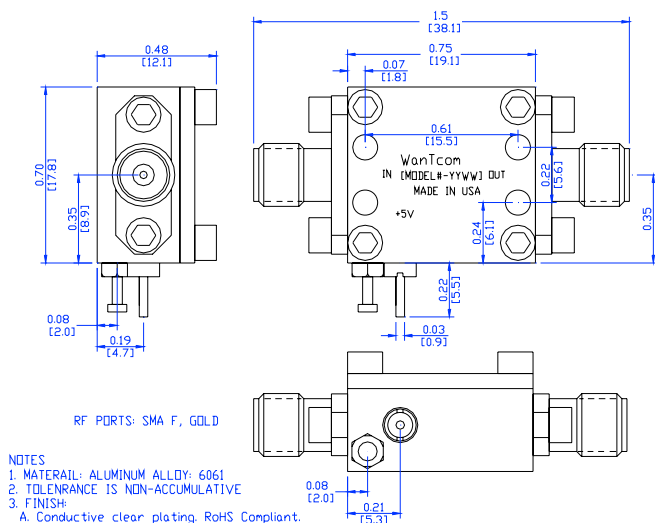
14. WP-10



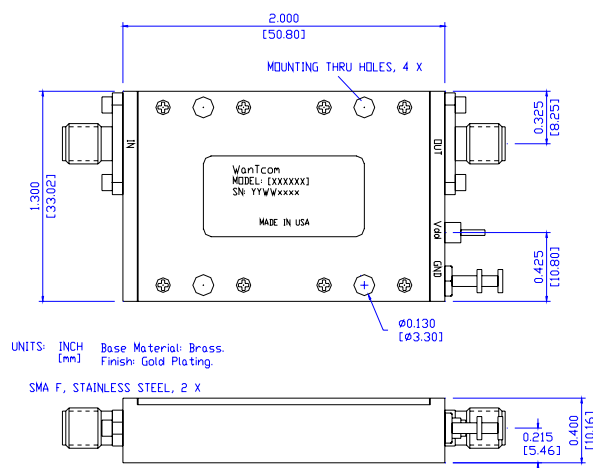
15. WP-10E



16. WP-30



17. WP-9

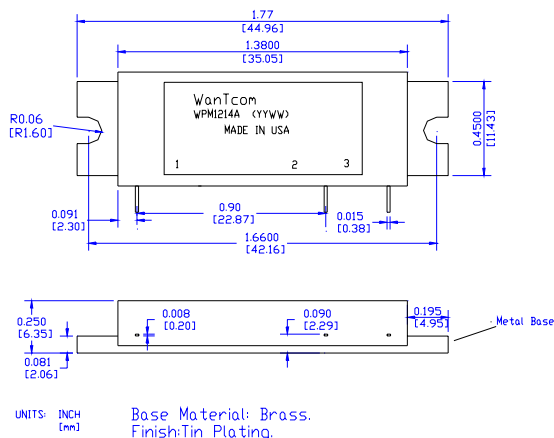


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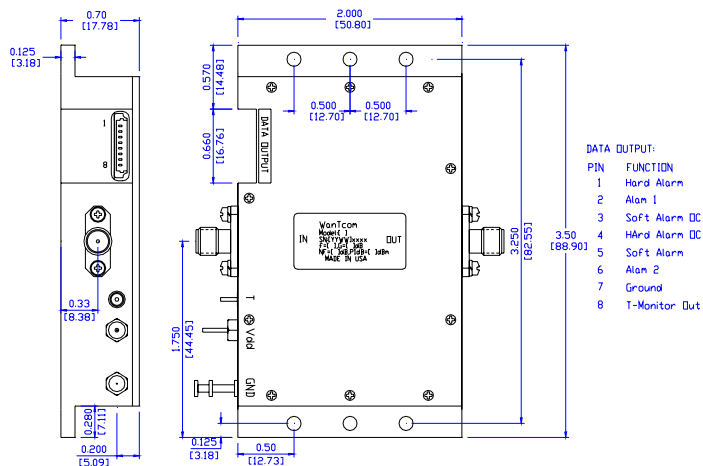
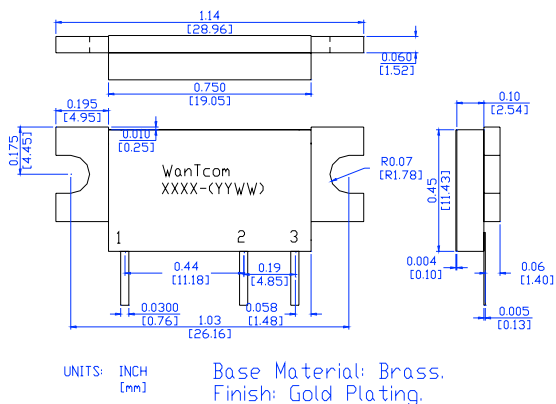
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19. WPM-1



21. WP-1C



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