

**BUSINESS PUBLICATION CIRCULATION STATEMENT
FOR THE 6 MONTH PERIOD ENDED JUNE 2011
(Including Supplementary Data)**

No attempt has been made to rank the information contained in this report in order of importance, since BPA Worldwide believes this is a judgment, which must be made by the user of the report.

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FIELD SERVED

MICROWAVES & RF serves the microwaves and radio frequency fields of aviation, automotive, weapons/electronic warfare, computers/computer networks, communications/cellular/broadcast, consumer electronics, ICs & semiconductors, medical, industrial, test equipment, and others including academic/laboratory/consulting

DEFINITION OF RECIPIENT QUALIFICATION

Qualified recipients are those individuals in the field of design and development engineering management, design and development engineering, design and development executive or operational management.

PURPOSE

This Circulation Statement contains an analysis of industry as well as spectral work (under, over, both 1 GHz and other) by respondents who specify or authorize the purchase of products.

AVERAGE NON-QUALIFIED CIRCULATION	
NON-QUALIFIED Not Included Elsewhere	Copies
Other Paid Circulation _____	374
Advertiser and Agency _____	1,562
Rotated or Occasional _____	-
Allocated for Trade Shows and Conventions _____	150
Digital _____	-
All Other _____	1,930
TOTAL	4,016

1. AVERAGE QUALIFIED CIRCULATION BREAKOUT FOR PERIOD						
QUALIFIED CIRCULATION	Total Qualified		Qualified Non-Paid		Qualified Paid	
	Copies	Percent	Copies	Percent	Copies	Percent
Individual _____	48,000	100.0	48,000	100.0	-	-
Sponsored Individually Addressed _____	-	-	-	-	-	-
Membership Benefit _____	-	-	-	-	-	-
Multi-Copy Same Addressee _____	-	-	-	-	-	-
Single Copy Sales _____	-	-	-	-	-	-
TOTAL QUALIFIED CIRCULATION	48,000	100.0	48,000	100.0	-	-

2. QUALIFIED CIRCULATION BY ISSUES FOR PERIOD					
2011 Issue	Number Removed	Number Added	Print Version Only (A)	Digital Version Only (B)	Total Qualified
January _____	11	11	38,500	9,500	48,000
February _____	52	52	38,500	9,500	48,000
March _____	114	114	38,500	9,500	48,000
April _____	34	34	38,500	9,500	48,000
*May _____	19,950	19,950	38,522	9,478	48,000
June _____	52	52	38,516	9,484	48,000
TOTAL	20,213	20,213			

*Analyzed Issue

**3a. ADDITIONAL DATA FOR ISSUE OF MAY 2011
INTERNATIONAL INDUSTRY BY TITLE ANALYSIS (EXCLUDES CANADA)**

BUSINESS AND INDUSTRY	TOTAL QUALIFIED	PERCENT OF TOTAL	CLASSIFICATION BY PRIMARY JOB FUNCTION		
			Design & Development Engineering Management	Design & Development Engineering	Design & Development Executive or Operating Mgmt
Aviation _____	420	0.9	152	160	108
Automotive _____	494	1.0	161	240	93
Weapons/Electronic Warfare _____	506	1.0	172	266	68
Computers/Computer Networks _____	1,051	2.2	262	426	363
Communications/Cellular/Broadcast _____	2,880	6.0	911	1,257	712
Consumer Electronics _____	806	1.7	237	349	220
ICs & Semiconductors _____	589	1.2	164	314	111
Medical _____	1,002	2.1	227	403	372
Industrial _____	1,709	3.6	495	724	490
Test Equipment _____	573	1.2	164	297	112
Other incl Acad/Lab/Consult _____	556	1.2	148	320	88
TOTAL QUALIFIED CIRCULATION	10,586	22.1	3,093	4,756	2,737

**3a. ADDITIONAL DATA FOR ISSUE OF MAY 2011
EUROPEAN INDUSTRY BY TITLE ANALYSIS**

BUSINESS AND INDUSTRY	TOTAL QUALIFIED	PERCENT OF TOTAL	CLASSIFICATION BY PRIMARY JOB FUNCTION		
			Design & Development Engineering Management	Design & Development Engineering	Design & Development Executive or Operating Mgmt
Aviation _____	257	0.5	88	99	70
Automotive _____	297	0.6	81	148	68
Weapons/Electronic Warfare _____	284	0.6	89	151	44
Computers/Computer Networks _____	343	0.7	99	102	142
Communications/Cellular/Broadcast _____	1,389	2.9	452	548	389
Consumer Electronics _____	417	0.9	131	153	133
ICs & Semiconductors _____	346	0.7	101	170	75
Medical _____	715	1.5	189	324	202
Industrial _____	1,188	2.5	359	536	293
Test Equipment _____	357	0.7	107	171	79
Other incl Acad/Lab/Consult _____	323	0.7	95	182	46
TOTAL QUALIFIED CIRCULATION	5,916	12.3	1,791	2,584	1,541

**3a. SUPPLEMENTARY DATA FOR ISSUE OF MAY 2011
INTERNATIONAL ANALYSIS BY PRODUCT SPECIFIED (EXCLUDES CANADA). This is an analysis of 10,586 RESPONDENTS OR 100% OF THE TOTAL QUALIFIED who specify or authorize the purchase of the products listed. See questionnaire used to elicit these data on the back of this report. Since any one respondent may have checked more than one response, the totals for each of these (i.e.: products and services) should not be added together as the total may exceed the total circulation. These data are presented for statistical and marketing purposes.**

BUSINESS AND INDUSTRY	TOTAL QUALIFIED	NUMBER OF RECIPIENTS RESPONDING TO QUESTION	PRODUCTS AND SERVICES								
			Digital ICs	Analog Mixed Signal	Components, Inter-connections & Packaging	Power	Test & Measurement Equipment	Communications	EDA Tools	Embedded Hardware & Software	Materials
Aviation _____	420	420	186	181	233	148	258	183	91	146	165
Automotive _____	494	494	251	224	297	226	283	218	164	232	202
Weapons/Electronic Warfare _____	506	506	278	289	367	280	380	247	201	248	233
Computers/Computer Networks _____	1,051	1,051	530	368	496	394	444	651	309	594	326
Communications/Cellular/Broadcast _____	2,880	2,880	1,387	1,536	1,756	1,292	1,916	2,074	995	1,172	1,017
Consumer Electronics _____	806	806	456	436	549	393	481	406	271	415	308
ICs & Semiconductors _____	589	589	268	300	407	215	384	221	225	228	231
Medical _____	1,002	1,002	362	332	610	377	631	318	228	444	561
Industrial _____	1,709	1,709	776	825	1,113	885	1,056	745	535	829	747
Test Equipment _____	573	573	280	327	352	298	498	203	187	222	255
Other incl Acad/Lab/Consult _____	556	556	302	298	380	295	455	281	220	208	275
TOTAL QUALIFIED CIRCULATION	10,586	10,586	5,076	5,116	6,560	4,803	6,786	5,547	3,426	4,738	4,320

**3a. ADDITIONAL DATA FOR ISSUE OF MAY 2011
ANALYSIS OF INDUSTRY BY SPECTRAL WORK
(See question # 5 on the questionnaire used to elicit this data on the back page of this report.)
This is an analysis of 48,000 RESPONDENTS OR 100% OF THE TOTAL QUALIFIED WHOSE PRIMARY SPECTRAL WORK IS RF, MICROWAVE, BOTH OR OTHER.**

BUSINESS AND INDUSTRY	TOTAL QUALIFIED	NUMBER OF RECIPIENTS	SPECTRAL WORK			
			RF	MICROWAVE	BOTH	OTHER
Aviation _____	3,631	3,631	986	349	1,624	672
Automotive _____	3,130	3,130	998	249	1,086	797
Weapons/Electronic Warfare _____	3,455	3,455	607	508	2,059	281
Computers/Computer Networks _____	4,382	4,382	1,221	511	1,844	806
Communications/Cellular/Broadcast _____	10,484	10,484	2,765	1,270	5,778	671
Consumer Electronics _____	3,590	3,590	1,280	307	1,372	631
ICs & Semiconductors _____	2,453	2,453	686	269	1,092	406
Medical _____	3,142	3,142	952	268	1,047	875
Industrial _____	8,148	8,148	2,360	719	2,535	2,534
Test Equipment _____	2,525	2,525	645	252	1,255	373
Other incl Acad/Lab/Consult _____	3,060	3,060	641	278	1,413	728
TOTAL QUALIFIED CIRCULATION	48,000	48,000	13,141	4,980	21,105	8,774

3b. QUALIFICATION SOURCE BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF MAY 2011

QUALIFICATION SOURCE	Qualified Within			Print Version Only (A)	Digital Version Only (B)	Total Qualified	Percent
	1 Year	2 Years	3 Years				
I. Direct Request:	44,461	3,539	-	38,522	9,478	48,000	100.0
II. Request from recipient's company:	-	-	-	-	-	-	-
III. Membership Benefit:	-	-	-	-	-	-	-
IV. Communication from recipient or recipient's company (other than request):	-	-	-	-	-	-	-
V. TOTAL - Sources other than above (listed alphabetically):	-	-	-	-	-	-	-
Association rosters and directories	-	-	-	-	-	-	-
Business directories	-	-	-	-	-	-	-
Manufacturer's, distributor's, and wholesaler's lists	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-
VI. Single Copy Sales:	-	-	-	-	-	-	-
TOTAL QUALIFIED CIRCULATION	44,461	3,539	-	38,522	9,478	48,000	100.0
PERCENT	92.6	7.4	-	80.3	19.7	100.0	

3c. MAILING ADDRESS BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF MAY 2011

MAILING ADDRESS	Print Version Only (A)	Digital Version Only (B)	Total Qualified	Percent
Individuals by name and title and/or function	38,522	9,478	48,000	100.0
Individuals by name only	-	-	-	-
Titles or functions only	-	-	-	-
Company names only	-	-	-	-
Multi-Copy Same Addressee copies	-	-	-	-
Single Copy Sales	-	-	-	-
TOTAL QUALIFIED CIRCULATION	38,522	9,478	48,000	100.0

4. GEOGRAPHICAL BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF MAY 2011

State	Print Version Only (A)	Digital Version Only (B)	Total Qualified	Percent	Region/Country	Print Version Only (A)	Digital Version Only (B)	Total Qualified	Percent
Maine	90	13	103		ASIA				
New Hampshire	261	72	333		China	639	42	681	
Vermont	64	21	85		Hong Kong - SAR	27	15	42	
Massachusetts	966	321	1,287		India	1,693	282	1,975	
Rhode Island	97	23	120		Indonesia	97	36	133	
Connecticut	439	83	522		Japan	93	125	218	
NEW ENGLAND	1,917	533	2,450	5.1	Korea, Democratic People's Republic Of	106	26	132	
New York	1,601	390	1,991		Malaysia	239	55	294	
New Jersey	789	262	1,051		Pakistan	16	-	16	
Pennsylvania	1,153	257	1,410		Philippines	57	18	75	
MIDDLE ATLANTIC	3,543	909	4,452	9.3	Singapore	268	62	330	
Ohio	1,208	220	1,428		Sri Lanka	1	-	1	
Indiana	650	149	799		Taiwan	38	43	81	
Illinois	1,482	318	1,800		Thailand	35	7	42	
Michigan	923	120	1,043		Subtotal	3,309	711	4,020	8.4
Wisconsin	690	119	809		MIDDLE EAST	60	67	127	0.3
EAST NO. CENTRAL	4,953	926	5,879	12.2	EUROPE				
Minnesota	617	131	748		Austria	4	4	8	
Iowa	366	72	438		Belarus	3	-	3	
Missouri	508	100	608		Belgium	374	48	422	
North Dakota	90	11	101		Bosnia and Herzegovina	1	-	1	
South Dakota	65	19	84		Bulgaria	2	-	2	
Nebraska	172	25	197		Croatia	3	-	3	
Kansas	299	68	367		Czech Republic	10	-	10	
WEST NO. CENTRAL	2,117	426	2,543	5.3	Denmark	193	26	219	
Delaware	57	19	76		Estonia	1	-	1	
Maryland	644	245	889		Finland	66	10	76	
Washington, DC	116	33	149		France	895	97	992	
Virginia	695	209	904		Germany	418	171	589	
West Virginia	106	20	126		Greece	38	31	69	
North Carolina	691	112	803		Hungary	4	-	4	
South Carolina	272	38	310		Italy	273	119	392	
Georgia	548	125	673		Latvia	1	-	1	
Florida	1,248	271	1,519		Lithuania	1	-	1	
SOUTH ATLANTIC	4,377	1,072	5,449	11.4	Luxembourg	3	-	3	
Kentucky	296	34	330		Netherlands	250	47	297	
Tennessee	416	66	482		Norway	79	20	99	
Alabama	434	83	517		Poland	53	-	53	
Mississippi	184	30	214		Portugal	61	6	67	
EAST SO. CENTRAL	1,330	213	1,543	3.2	Ireland	159	14	173	
Arkansas	169	22	191		Romania	10	-	10	
Louisiana	258	32	290		Russian Federation	196	16	212	
Oklahoma	273	53	326		Serbia	3	-	3	
Texas	1,908	455	2,363		Slovakia	9	-	9	
WEST SO. CENTRAL	2,608	562	3,170	6.6	Slovenia	1	-	1	
Montana	106	18	124		Spain	442	61	503	
Idaho	164	26	190		Sweden	280	49	329	
Wyoming	58	14	72		Switzerland	189	20	209	
Colorado	589	203	792		Turkey	4	-	4	
New Mexico	263	81	344		Ukraine	6	-	6	
Arizona	613	222	835		United Kingdom	953	192	1,145	
Utah	320	96	416		Subtotal	4,985	931	5,916	12.3
Nevada	172	49	221		AFRICA	17	1	18	-
MOUNTAIN	2,285	709	2,994	6.2	NORTH AMERICA				
Alaska	41	7	48		Canada	613	275	888	
Washington	665	159	824		United States	29,153	7,283	36,436	
Oregon	443	122	565		Mexico	72	25	97	
California	4,843	1,637	6,480		unspecified North America	80	10	90	
Hawaii	31	8	39		Subtotal	29,918	7,593	37,511	78.2
PACIFIC	6,023	1,933	7,956	16.6	CARIBBEAN	4	1	5	-
UNITED STATES	29,153	7,283	36,436	75.9	CENTRAL AMERICA	3	-	3	-
U.S. Territories	75	10	85		SOUTH AMERICA	150	101	251	0.5
Canada	613	275	888		ASIA PACIFIC	76	73	149	0.3
Mexico	72	25	97		TOTAL QUALIFIED CIRCULATION	38,522	9,478	48,000	100.0
Other International	8,604	1,885	10,489						
APO/FPO	5	-	5						

3a. BUSINESS/OCCUPATION BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF MAY 2011
 This issue is equal to the average of the other 5 issues reported in Paragraph two.

BUSINESS AND INDUSTRY	TOTAL QUALIFIED	PERCENT OF TOTAL	Print Version Only (A)	Digital Version Only (B)	CLASSIFICATION BY PRIMARY JOB FUNCTION		
					Design & Development Engineering Management	Design & Development Engineering	Design & Development Executive or Operating Mgmt
Aviation	3,631	7.6	3,012	619	1,060	1,950	621
Automotive	3,130	6.5	2,805	325	1,032	1,488	610
Weapons/Electronic Warfare	3,455	7.2	2,410	1,045	986	2,040	429
Computers/Computer Networks	4,382	9.1	3,705	677	1,263	1,779	1,340
Communications/Cellular/Broadcast	10,484	21.8	7,588	2,896	3,129	5,092	2,263
Consumer Electronics	3,590	7.5	3,047	543	1,048	1,705	837
ICs & Semiconductors	2,453	5.1	1,878	575	731	1,330	392
Medical	3,142	6.5	2,805	337	827	1,505	810
Industrial	8,148	17.0	7,298	850	2,331	3,890	1,927
Test Equipment	2,525	5.3	1,883	642	686	1,347	492
Other incl Acad/Lab/Consult	3,060	6.4	2,091	969	815	1,622	623
TOTAL QUALIFIED CIRCULATION	48,000	100.0	38,522	9,478	13,908	23,748	10,344
PERCENT	100.0		80.3	19.7	29.0	49.5	21.5

3a. ADDITIONAL SUPPLEMENTARY DATA FOR ISSUE OF MAY 2011

ANALYSIS OF INDUSTRY BY SPECTRAL WORK.

This is an analysis of 48,000 or 100% respondents of the Total Qualified, who specify or authorize the purchase of the products listed. SINCE ANY ONE RESPONDENT MAY HAVE CHECKED MORE THAN ONE RESPONSE, THE TOTALS FOR EACH OF THESE PRODUCTS SHOULD NOT BE ADDED TOGETHER AS THE TOTAL WILL MAY EXCEED THE TOTAL CIRCULATION. THE DATA REPRESENTED IS FOR STATISTICAL AND MARKETING PURPOSES ONLY. (See Note 3)

PRIMARY WORK	TOTAL QUALIFIED	NUMBER OF RECIPIENTS RESPONDING TO QUESTION	Digital ICs	Analog Mixed Signal	Components, Interconnections & Packaging	Power	Test & Measurement Equipment	Communications	EDA Tools	Embedded Hardware & Software	Materials
RF (Under 1 GHz)	13,144	13,144	9,172	9,287	10,565	9,416	10,366	9,048	6,876	8,252	8,247
MICROWAVE (Over 1 GHz)	4,980	4,980	2,659	2,717	3,546	2,985	3,632	2,962	2,128	2,518	2,706
BOTH	21,105	21,105	14,326	14,892	17,055	15,216	17,320	15,218	11,487	12,639	13,682
OTHER	8,771	8,771	5,312	5,283	6,598	6,125	6,602	5,614	4,626	5,719	6,036
NO RESPONSE	-	-	-	-	-	-	-	-	-	-	-
TOTAL QUALIFIED CIRCULATION	48,000	48,000	31,469	32,179	37,764	33,742	37,920	32,842	25,117	29,128	30,671

3a. SUPPLEMENTARY DATA FOR ISSUE OF MAY 2011

ANALYSIS OF INDUSTRY BY PRODUCTS SPECIFIED OR AUTHORIZED TO PURCHASE (See question # 6 on the questionnaire used to elicit this data on the back page of this report. This is an analysis of 48,000 RESPONDENTS OR 100% OF THE TOTAL QUALIFIED WHO AUTHORIZE THE PURCHASE OF THE PRODUCTS LISTED. SINCE ANY ONE RESPONDENT MAY HAVE CHECKED MORE THAN ONE RESPONSE, THE TOTALS FOR EACH OF THESE PRODUCTS SHOULD NOT BE ADDED TOGETHER AS THE TOTAL WILL MAY EXCEED THE TOTAL CIRCULATION. THE DATA REPRESENTED IS FOR STATISTICAL AND MARKETING PURPOSES ONLY.

BUSINESS AND INDUSTRY	TOTAL QUALIFIED	NUMBER OF RECIPIENTS RESPONDING TO QUESTION	Digital ICs	Analog Mixed Signal	Components, Interconnections & Packaging	Power	Test & Measurement Equipment	Communications	EDA Tools	Embedded Hardware & Software	Materials
Aviation	3,631	3,631	2,526	2,556	2,954	2,674	2,947	2,509	2,006	2,368	2,528
Automotive	3,130	3,130	2,100	2,130	2,549	2,339	2,490	2,115	1,801	2,113	2,247
Weapons/Electronic Warfare	3,455	3,455	2,333	2,445	2,853	2,470	2,855	2,174	1,764	2,016	2,238
Computers/Computer Networks	4,382	4,382	3,006	2,743	3,248	3,004	3,115	3,353	2,418	3,136	2,614
Communications/Cellular/Broadcast	10,484	10,484	6,474	6,942	7,921	6,904	8,212	8,489	5,138	5,550	5,936
Consumer Electronics	3,590	3,590	2,581	2,563	2,999	2,602	2,781	2,419	1,991	2,360	2,339
ICs & Semiconductors	2,453	2,453	1,563	1,648	1,946	1,478	1,887	1,272	1,284	1,229	1,376
Medical	3,142	3,142	2,025	1,963	2,480	2,136	2,471	1,806	1,580	1,977	2,213
Industrial	8,148	8,148	5,305	5,474	6,484	6,213	6,426	5,429	4,427	5,328	5,489
Test Equipment	2,525	2,525	1,652	1,750	1,975	1,757	2,273	1,369	1,224	1,393	1,583
Other incl Acad/Lab/Consult	3,060	3,060	1,901	1,965	2,355	2,165	2,463	1,907	1,484	1,658	2,110
TOTAL QUALIFIED CIRCULATION	48,000	48,000	31,466	32,179	37,764	33,742	37,920	32,842	25,117	29,128	30,673