

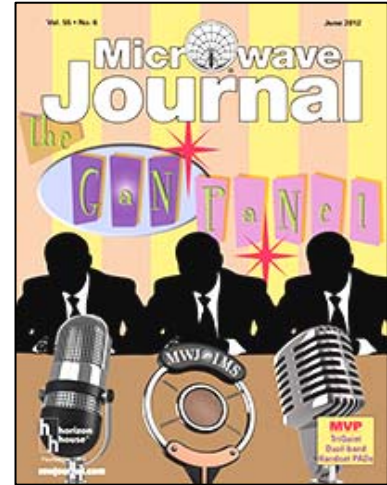
No attempt has been made to rank the information contained in this report in order of importance, since BPA Worldwide believes this is a judgment, which must be made by the user of the report.

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About BPA Worldwide

A not-for-profit organization since 1931 and headquartered in Shelton, CT, USA, BPA has the largest membership of any media-auditing organization in the world, spanning more than 30 countries. The organization conducts 2,600+ audits for media brands in print, online/digital and live events. Additionally, under the iCompli brand, BPA documents compliance to defined standards including data protection, provides assurance of sustainability reporting, and verifies technology, service and privacy claims. BPA is supported by 2,700 advertiser and agency members.

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Horizon House Publications Inc
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www.mwjjournal.com

Official Publication of: None
Established: 1958
Issues Per Year: 12

FIELD SERVED

MICROWAVE JOURNAL serves the field of radar systems, weapons control, ordinance, fusing systems, ground support equipment, aircraft/missile, navigation, telemetry systems, electronic warfare systems, communications systems and equipment, cellular systems & equipment, WLAN, WiFi, semiconductor, RFICs, MMICs, CATV broadcast systems, data transmission and computer systems, software development, laser/electro-optical systems and equipment, test and measurement equipment, active components (including power supplies, devices, and subsystems), passive components (including antennas, devices, and subsystems), materials and hardware, industrial/academic/R&D laboratories, consultants, industrial/commercial control processing equipment, medical equipment, consumer electronics, automotive transportation, security/identification, government and military research, design and engineering and other manufacturers. Also qualified are users of microwave equipment in government/military and industrial/commercial firms as well as technical libraries and all others allied to the field.

DEFINITION OF RECIPIENT QUALIFICATION

Qualified recipients are managers and engineers of design and development, engineering service, research, and manufacturing and production. Also qualified are general and corporate management, other managers, supervisors, engineers; engineering support, purchasing and procurement, applications engineering, sales and marketing personnel; educators and other personnel and company addressed copies.

AVERAGE NON-QUALIFIED CIRCULATION	
NON-QUALIFIED Not Included Elsewhere	Copies
Other Paid Circulation _____	330
Advertiser and Agency _____	741
Rotated or Occasional _____	-
Allocated for Trade Shows and Conventions _____	929
Digital _____	-
All Other _____	1,240
TOTAL	3,240

1. AVERAGE QUALIFIED CIRCULATION BREAKOUT FOR PERIOD						
QUALIFIED CIRCULATION	Total Qualified		Qualified Non-Paid		Qualified Paid	
	Copies	Percent	Copies	Percent	Copies	Percent
Individual _____	50,550	100.0	50,550	100.0	-	-
Sponsored Individually Addressed _____	-	-	-	-	-	-
Membership Benefit _____	-	-	-	-	-	-
Multi-Copy Same Addressee _____	-	-	-	-	-	-
Single Copy Sales _____	-	-	-	-	-	-
TOTAL QUALIFIED CIRCULATION	50,550	100.0	50,550	100.0	-	-

2. QUALIFIED CIRCULATION BY ISSUES FOR PERIOD			
2012 Issue	Print Version Only (A)	Digital Version Only (B)	Total Qualified
January _____	35,836	14,164	50,000
February _____	35,746	14,360	50,106
March _____	34,890	15,316	50,206
April _____	33,612	16,403	50,015
May _____	35,392	16,098	51,490
June _____	35,400	16,086	51,486

3b. BUSINESS/OCCUPATION BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF MAY 2012

QUALIFICATION SOURCE	Qualified Within			Print Version Only (A)	Digital Version Only (B)	Total Qualified	Percent
	1 Year	2 Years	3 Years				
I. Direct Request: _____	46,887	4,603	-	35,392	16,098	51,490	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	46,887	4,603	-	35,392	16,098	51,490	100.0
PERCENT	91.1	8.9	-	68.7	31.3	100.0	

4. GEOGRAPHICAL BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF MAY 2012

State	Print Version Only (A)	Digital Version Only (B)	Total Qualified	Percent	State	Print Version Only (A)	Digital Version Only (B)	Total Qualified	Percent
Maine _____	90	17	107		Kentucky _____	221	77	298	
New Hampshire _____	332	128	460		Tennessee _____	386	132	518	
Vermont _____	76	26	102		Alabama _____	405	160	565	
Massachusetts _____	1,239	478	1,717		Mississippi _____	122	36	158	
Rhode Island _____	102	40	142		EAST SO. CENTRAL	1,134	405	1,539	3.0
Connecticut _____	422	135	557		Arkansas _____	139	49	188	
NEW ENGLAND	2,261	824	3,085	6.0	Louisiana _____	186	48	234	
New York _____	1,727	558	2,285		Oklahoma _____	236	98	334	
New Jersey _____	995	350	1,345		Texas _____	1,851	802	2,653	
Pennsylvania _____	1,332	429	1,761		WEST SO. CENTRAL	2,412	997	3,409	6.6
MIDDLE ATLANTIC	4,054	1,337	5,391	10.5	Montana _____	73	17	90	
Ohio _____	1,298	447	1,745		Idaho _____	106	58	164	
Indiana _____	700	237	937		Wyoming _____	36	11	47	
Illinois _____	1,440	444	1,884		Colorado _____	575	257	832	
Michigan _____	1,122	390	1,512		New Mexico _____	179	76	255	
Wisconsin _____	565	190	755		Arizona _____	622	306	928	
EAST NO. CENTRAL	5,125	1,708	6,833	13.3	Utah _____	278	122	400	
Minnesota _____	625	202	827		Nevada _____	157	53	210	
Iowa _____	308	115	423		MOUNTAIN	2,026	900	2,926	5.7
Missouri _____	487	159	646		Alaska _____	43	21	64	
North Dakota _____	69	20	89		Washington _____	454	222	676	
South Dakota _____	71	25	96		Oregon _____	324	154	478	
Nebraska _____	151	50	201		California _____	4,350	1,918	6,268	
Kansas _____	320	109	429		Hawaii _____	52	24	76	
WEST NO. CENTRAL	2,031	680	2,711	5.2	PACIFIC	5,223	2,339	7,562	14.7
Delaware _____	51	25	76		UNITED STATES	29,379	10,995	40,374	78.4
Maryland _____	886	318	1,204		U.S. Territories _____	20	13	33	
Washington, DC _____	117	62	179		Canada _____	318	284	602	
Virginia _____	904	308	1,212		Mexico _____	35	49	84	
West Virginia _____	96	24	120		Other International _____	5,637	4,756	10,393	
North Carolina _____	716	214	930		APO/FPO _____	3	1	4	
South Carolina _____	271	85	356		TOTAL QUALIFIED CIRCULATION	35,392	16,098	51,490	100.0
Georgia _____	599	227	826						
Florida _____	1,473	542	2,015						
SOUTH ATLANTIC	5,113	1,805	6,918	13.4					

4. GEOGRAPHICAL BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF MAY 2012

Region/Country	Print Version Only (A)	Digital Version Only (B)	Total Qualified	Percent
ASIA				
China _____	412	556	968	
India _____	628	472	1,100	
Indonesia _____	67	33	100	
Japan _____	287	281	568	
Korea, Republic Of _____	217	154	371	
Malaysia _____	128	123	251	
Philippines _____	70	29	99	
Singapore _____	117	105	222	
Sri Lanka _____	36	13	49	
Taiwan _____	103	159	262	
Thailand _____	51	25	76	
Vietnam _____	8	18	26	
Subtotal	2,124	1,968	4,092	7.9
MIDDLE EAST				
Israel _____	101	82	183	
Saudi Arabia _____	5	5	10	
Subtotal	106	87	193	0.4
EUROPE				
Albania _____	1	2	3	
Austria _____	29	18	47	
Belarus _____	9	3	12	
Belgium _____	70	41	111	
Bosnia and Herzegovina _____	2	6	8	
Bulgaria _____	28	16	44	
Croatia _____	8	8	16	
Cyprus _____	-	3	3	
Czech Republic _____	27	24	51	
Denmark _____	52	48	100	
Estonia _____	3	5	8	
Finland _____	61	48	109	
France _____	341	223	564	
Germany _____	554	342	896	
Greece _____	35	55	90	
Hungary _____	27	25	52	
Iceland _____	1	2	3	
Italy _____	308	297	605	
Latvia _____	4	5	9	
Liechtenstein _____	1	-	1	
Lithuania _____	10	10	20	
Luxembourg _____	8	3	11	
Macedonia _____	4	2	6	
Malta _____	2	1	3	
Moldova _____	-	2	2	
Netherlands _____	121	99	220	
Norway _____	34	18	52	
Poland _____	57	45	102	
Portugal _____	26	31	57	
Ireland _____	38	31	69	
Romania _____	28	40	68	

Region/Country	Print Version Only (A)	Digital Version Only (B)	Total Qualified	Percent
Russian Federation _____	143	160	303	
Serbia _____	18	25	43	
Slovakia _____	7	5	12	
Slovenia _____	11	12	23	
Spain _____	188	159	347	
Sweden _____	145	87	232	
Switzerland _____	73	57	130	
Turkey _____	145	68	213	
Ukraine _____	53	48	101	
United Kingdom _____	472	382	854	
Subtotal	3,144	2,456	5,600	10.9
AFRICA				
Egypt _____	22	29	51	
South Africa _____	28	38	66	
Subtotal	50	67	117	0.2
NORTH AMERICA				
Canada _____	318	284	602	
United States _____	29,379	10,995	40,374	
Mexico _____	35	49	84	
unspecified North America _____	4	1	5	
Subtotal	29,736	11,329	41,065	79.8
CARIBBEAN				
Cuba _____	1	-	1	
Puerto Rico _____	18	13	31	
Trinidad and Tobago _____	1	-	1	
Virgin Islands, U.S. _____	1	-	1	
Subtotal	21	13	34	0.1
CENTRAL AMERICA				
Belize _____	1	-	1	
Guatemala _____	1	1	2	
Subtotal	2	1	3	-
SOUTH AMERICA				
Argentina _____	59	21	80	
Bolivia _____	2	2	4	
Brazil _____	65	47	112	
Chile _____	1	5	6	
Ecuador _____	1	3	4	
Peru _____	8	5	13	
Uruguay _____	2	-	2	
Venezuela _____	3	4	7	
Subtotal	141	87	228	0.4
ASIA PACIFIC				
Australia _____	59	67	126	
New Zealand _____	9	23	32	
Subtotal	68	90	158	0.3
TOTAL QUALIFIED CIRCULATION	35,392	16,098	51,490	100.0

ADDITIONAL DATA**METHOD OF DISTRIBUTION:**

All qualified circulation conforms to the field served and definition of a recipient's qualification, as reported. Print copies are distributed via postal services or other carriers. Recipients of the digital version are notified via email when the version is available.

STATEMENT OF CONTENT PLATFORM:

Editorial Replica – If a print brand existed first, editorial and design are unchanged from the original print edition. With a replica digital product, each issue's content and design are identical to the original edition. Apart from minor updates, the content cannot change once the issue is made available.

1. AVERAGE QUALIFIED CIRCULATION BREAKOUT FOR PERIOD - PRINT VERSION ONLY						
QUALIFIED CIRCULATION	Total Qualified		Qualified Non-Paid		Qualified Paid	
	Copies	Percent	Copies	Percent	Copies	Percent
Individual _____	35,146	100.0	35,146	100.0	-	-
Sponsored Individually Addressed ____	-	-	-	-	-	-
Membership Benefit _____	-	-	-	-	-	-
Multi-Copy Same Addressee _____	-	-	-	-	-	-
Single Copy Sales _____	-	-	-	-	-	-
TOTAL QUALIFIED CIRCULATION	35,146	100.0	35,146	100.0	-	-

1. AVERAGE QUALIFIED CIRCULATION BREAKOUT FOR PERIOD - DIGITAL VERSION ONLY						
QUALIFIED CIRCULATION	Total Qualified		Qualified Non-Paid		Qualified Paid	
	Copies	Percent	Copies	Percent	Copies	Percent
Individual _____	15,404	100.0	15,404	100.0	-	-
Sponsored Individually Addressed ____	-	-	-	-	-	-
Membership Benefit _____	-	-	-	-	-	-
Multi-Copy Same Addressee _____	-	-	-	-	-	-
Single Copy Sales _____	-	-	-	-	-	-
TOTAL QUALIFIED CIRCULATION	15,404	100.0	15,404	100.0	-	-

PUBLISHER'S AFFIDAVIT

We hereby make oath and testify that all data set forth in this statement are true.

Ivar Bazzy, President

Carl Sheffres, Publisher

(At least one of the above signatures must be that of an officer of the publishing company or its authorized representative.)

IMPORTANT NOTE:

This unaudited circulation statement has been checked against the previous audit report. It will be included in the annual audit made by BPA Worldwide.

Date signed

July 19, 2012

State

Massachusetts

County

Norfolk

Received by BPA Worldwide

July 19, 2012

Type

PJ

ID Number

M069Y0J2

3a. BUSINESS/OCCUPATION BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF MAY 2012
 This issue is 2.2% or 1,127 copies above 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)	DESIGN & DEVELOPMENT ENGINEERING		ENGINEERING SERVICES		GENERAL AND/OR CORPORATE MANAGEMENT (01)	BASIC RESEARCH		MANUFACTURING & PRODUCTION		ENGINEERING SUPPORT (DRAFTSMEN, LAB ASSISTANTS, TECHNICIANS)	PURCHASING & PROCUREMENT (11)	APPLICATIONS ENGINEERING SALES AND MARKETING (12)	EDUCATORS (13)	OTHER PERSONNEL (14)	NO ANSWER
					MANAGEMENT (02)	ENGINEERS (03)	MANAGEMENT (04)	ENGINEERS (05)		MANAGEMENT (06)	ENGINEERS (07)	MANAGEMENT (08)	ENGINEERS (09)						
THE ORIGINAL EQUIPMENT MARKET																			
6. COMMUNICATIONS SYSTEMS, EQUIPMENT Transmitters, receivers, monitor equipment, MW links, satellite communications	12,733	24.7	8,604	4,129	1,234	5,802	383	1,015	1,433	337	876	169	282	321	97	318	240	226	-
17. CELLULAR SYSTEMS AND EQUIPMENT	1,197	2.3	713	484	143	504	43	111	85	24	138	16	17	35	9	52	19	1	-
26. WLAN, WiFi	717	1.4	434	283	88	238	35	70	80	25	64	12	13	27	8	23	33	1	-
10. TEST AND MEASUREMENT EQUIPMENT Spectrum analyzers, generators, network analyzers, oscilloscopes, meters, etc.	2,895	5.6	1,967	928	262	889	105	262	372	96	310	63	101	77	15	282	54	7	-
27. SEMICONDUCTOR, RFICS,MMICS, etc	2,161	4.2	1,303	858	229	768	42	122	170	75	283	33	70	35	14	250	68	2	-
11. ACTIVE COMPONENTS (INCLUDING POWER SUPPLIES, DEVICES, SUBSYSTEMS) Transistors, diodes, amplifiers, oscillators, tubes, limiters, power supplies	796	1.6	550	246	101	274	36	43	112	25	55	21	38	16	7	51	16	1	-
12. PASSIVE COMPONENTS (INCLUDING ANTENNAS, DEVICES, SUBSYSTEMS) Antennas, power dividers, couplers, diplexers, attenuators, filters, resistors, capacitors, inductors, cable, wave guide, connectors	1,523	3.0	982	541	159	461	41	72	190	43	232	23	31	17	15	150	86	3	-
16. GOVERNMENT/MILITARY Research, design, engineering and test	3,307	6.4	2,264	1,043	262	1,256	116	290	318	150	530	42	90	102	26	55	63	7	-
1. RADAR SYSTEMS Arrays, search, mapping, sidelooking, weather radar, transmitters, receivers	1,121	2.2	707	414	137	509	31	66	48	32	172	12	22	23	7	21	38	3	-
4. NAVIGATION, TELEMTRY SYSTEMS, GPS Including landing systems	424	0.8	284	140	35	195	18	34	43	10	39	12	17	7	2	6	5	1	-
8. DATA TRANSMISSION, COMPUTER SYSTEMS Computers, processors, terminals, displays, keyboards, line printers, modems	577	1.1	389	188	51	180	24	59	88	31	39	19	28	21	2	18	16	1	-
28. SOFTWARE DEVELOPMENT	729	1.4	487	242	63	233	28	75	111	31	54	15	14	18	5	56	24	2	-
5. ELECTRONIC WARFARE SYSTEMS Radar homing, warning, and surveillance receivers, jammers, reconnaissance systems	587	1.2	368	219	65	272	17	37	45	16	49	14	17	14	9	22	8	2	-
3. GROUND SUPPORT EQUIPMENT, AIRCRAFT/MISSILE	801	1.6	600	201	52	308	23	68	113	24	64	21	57	42	11	11	3	4	-
2. WEAPONS CONTROL, ORDNANCE, FUSING SYSTEMS Missile guidance, fire control radar, proximity fuses	115	0.2	86	29	12	41	9	11	13	4	9	4	3	5	1	2	1	-	-
13. MATERIALS, HARDWARE Ceramic/absorbing/reflecting materials, substrates	992	1.9	726	266	53	214	39	76	219	36	56	71	87	55	10	68	7	1	-
15. INDUSTRIAL/ACADEMIC LABORATORIES, CONSULTANTS Research, test, design	2,938	5.7	2,005	933	142	693	91	177	521	152	428	89	108	97	22	59	350	9	-
14. INDUSTRIAL/COMMERCIAL CONTROL, PROCESSING EQUIPMENT Heating and drying systems, MW ovens, processing controls, security systems	2,511	4.9	1,842	669	194	781	88	199	423	142	109	156	238	94	23	57	4	3	-
29. MEDICAL EQUIPMENT	1,125	2.2	767	358	87	361	44	81	169	55	126	49	65	51	3	13	19	2	-
20. CONSUMER ELECTRONICS	1,087	2.1	764	323	83	372	42	97	171	47	59	50	60	55	14	27	9	1	-
7. CATV, BROADCAST SYSTEMS Transmitters and receivers, amplifiers, video recorders	678	1.3	488	190	43	115	84	146	108	21	12	24	33	61	4	22	3	2	-
18. AUTOMOTIVES/TRANSPORTATION	2,336	4.5	1,814	522	132	569	63	155	671	106	135	117	196	89	29	53	6	15	-
19. SECURITY/IDENTIFICATION	229	0.4	164	65	20	65	11	17	40	9	19	12	6	8	6	7	8	1	-
9. LASER/ELECTRO-OPTICAL SYSTEMS, EQUIPMENT Lasers (all types), IR, laser rods, mirrors, optical benches	266	0.5	180	86	16	75	11	26	42	11	36	7	7	12	4	6	12	1	-
21. OTHER	1,265	2.5	928	337	75	363	32	116	291	66	84	34	47	52	16	44	23	22	-
Sub-Total	43,110	83.7	29,416	13,694	3,738	15,538	1,456	3,425	5,876	1,568	3,978	1,085	1,647	1,334	359	1,673	1,115	318	-
USERS OF MICROWAVE EQUIPMENT																			
22. GOVERNMENT/MILITARY Communications Systems, Equipment, Transmitters, Receivers, Monitor Equipment, MW links, Satellite Communications, Radar, Monopulse, MTI, Pulse Doppler, Secondary, Sidelooking, Electronic Warfare, Radar Homing, Warning and Surveillance Receivers, Jammers, Reconnaissance Systems, Other Systems, Equipment	3,217	6.3	2,225	992	210	996	156	419	418	119	324	50	97	213	51	77	71	16	-
23. INDUSTRIAL/COMMERCIAL Communications Systems, Equipment, Broadcast/CATV, MW links, Satellite Communications, Other Systems Equipment, Heating and Drying System, MW Ovens, Processing Controls, Security Systems	4,597	8.9	3,352	1,245	308	1,131	231	546	1,084	139	245	186	243	258	50	121	42	13	-
Sub-Total	7,814	15.2	5,577	2,237	518	2,127	387	965	1,502	258	569	236	340	471	101	198	113	29	-
24. TECHNICAL LIBRARIES	566	1.1	399	167	29	105	25	62	137	23	30	14	15	38	9	12	64	3	-
25. OTHERS ALLIED TO THE FIELD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL QUALIFIED CIRCULATION	51,490	100.0	35,392	16,098	4,285	17,770	1,868	4,452	7,515	1,849	4,577	1,335	2,002	1,843	469	1,883	1,292	350	-
PERCENT	100.0		68.7	31.3	8.3	34.5	3.6	8.6	14.6	3.6	8.9	2.6	3.9	3.6	0.9	3.7	2.5	0.7	-