



ROGERS LABS, INC.

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June 3, 2008

Federal Communications Commission
Equipment Approval Services
P.O. Box 35815
Pittsburgh, PA 15251-3315

Correspondence Reference Number 35491

Applicant: Lectrosonics, Inc. 581 Laser Road Rio Rancho, NM 87124

Equipment: FCC ID: DBZSMQE

FCC Rules: Part 2 and 74

Copy of requested information:

Based upon our review of this application we have the following questions:

1) Please describe specific frequency sub-range versions requested under this FCC ID and specific electrical /hardware differences between each.

Response

- 1) Functionally, there is no difference between units in any given group (Block number). All of the functional parameters such as power output, occupied bandwidth, spectral purity, etc. are identical for all, no matter what the operating frequency. All products are comprehensively tested before shipment to guarantee that units operating in different frequency "blocks" (each 25.6 MHz wide) are indistinguishable. Structurally, only small differences in the values of a few "select" components are found between units within a particular group (Block number). In the case of the application of interest, the matrix of select part values appears as the shown in the table below. Values for capacitors in pF, inductors in nH, and for the ceramic resonators MHz (related to frequency range of the block). These "select" part values are always defined in a table found in the schematic for the product. As demonstrated the overall range of adjustment within any group (Block number) is less than 2:1, well within the range of adjustment traditionally accomplished by use of trimmer capacitors and variable (slug tuned) inductors. Of course, the purpose is the same - to center the tuned circuits on the block (sub-band) of interest. It is the use of the fixed value parts in these locations eliminates the problems associated with traditional variable components when subjected to vibration, thermal cycling, aging, etc. Otherwise, the units are identical in design and construction. All units are built from the same schematic on the same printed circuit board with all other circuit components the same.

	#	C2	C4	C5	C3	C21	C22	C25	C26	C28	C29	L5	L6	L8	L9	L10	L2	C51	R20	R16	ISO1	RES1	C34
SMQE	BK470	2.0	5	5	10	3.6	6	3.6	6	1.8	7	18	18	15	18	15	100	8	6.81K	.499	SXI479	SYCA550	100
	BK19	2.0	5	5	9	3.6	6	3.6	6	1.5	7	18	18	15	18	15	100	8	6.81K	.499	SXI499	SYCA600	
	BK20	2.0	5	5	8	3.6	6	3.6	6	1.5	7	18	18	15	18	15	100	7	6.81K	.499	SXI525	SYCA650	
SMQL	BK21	2.0	5	5	7	4	5	2.7	6	2.0	6	15	18	15	18	15	100	7	7.5K	.499	SXI550	SYCA650	100
	BK22	2.0	5	5	6	3.0	4.0	2.7	6	2.0	5.6	15	18	15	18	15	82	6	7.5K	.499	SXI575	SYCA700	
	BK23	2.0	5	5	6	3.0	4.0	3.6	6	2.0	5.6	15	15	15	18	15	68	6	7.5K	.499	SXI601	SYCA750	
SMQM	BK24	2.0	5	5	5	3.0	4.0	3.6	5	1.8	5	15	15	12	15	12	68	6	7.5K	.499	SXI627	SYCA800	100
	BK25	2.0	5	5	4.7	3.0	4.0	3.0	5	2.0	5	15	15	12	15	12	56	6	7.5K	.499	SXI652	SYCA850	
	BK26	2.0	5	5	4.7	3.0	4.0	3.6	4.7	1.8	5	12	12	12	15	12	56	6	7.5K	.499	SXI678	SYCA850	
SMQH	BK27	2.0	5	5	4	2.4	4.0	2.4	6	1.8	4	12	12	10	12	10	47	6	7.5K	.499	SXI703	SYCA900	100
	BK28	2.0	5	5	4	2.4	4.0	2.4	6	1.8	3.6	12	12	10	12	10	47	6	7.5K	.499	SXI729	SYCA950	
	BK29	2.0	5	5	3.6	2.2	4.0	2.7	8	1.6	4	12	12	10	12	10	47	6	7.5K	.499	SXI755	SYCA1050	
SMQV	BK944	1.0	2.0	1.5	2.0	5	2.4	1.2	2.0	1.8	3.0	10	10	12	12	10	47	5	7.5K	.499	SXI947	SYCA1260	22

Should you require any further information, please contact the undersigned.

Thank you for your consideration in this matter.

Sincerely,

Scot D Rogers

Scot Rogers
Rogers Labs, Inc.
Enclosures