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American Telecommunications Certification Body, Inc.
6731 Whittier Avenue
Suite C110
McLean, VA 22101

SUBJ. : Class2 permissive change
FCC ID: AFJ259000

To Whom It May Concern;

This is to inform you that there is class 2 permissive change on IC-7800 to upgrade its performance. The contents of this change is in attached documents.

Thank you for your attention to this matter.

Icom Incorporated,

A handwritten signature in black ink, appearing to be 'Yoshiteru Yano', written in a cursive style with a long tail stroke.

Yoshiteru Yano
General Manager

Contents of circuit modification in relation to upgrading of IC-7800

Unit name	Circuit diagram No.		Block diagram	Modification detail	Purpose of modification
	After	Before	Drawing No./Location		
RXPLL-A	1-1	1-2	5B1/7F	Added F11403 and surrounded circuit.	To improve RX blocking dynamic range (for main RX circuit)
RXPLL-B	2-1	2-2	5B1/11F	Added F11403 and surrounded circuit.	To improve RX blocking dynamic range (for sub RX circuit)
RXPLL-A	3-1	3-2	5B2/1E	Modified loop filter circuit in PLL for 1st Lo	To improve phase noise blocking in RX performance (for main RX circuit)
RXPLL-B	3-1	3-1	5B2/6E	Modified loop filter circuit in PLL for 1st Lo	To improve phase noise blocking in RX performance (for sub RX circuit)

Unit	PARTS Ref.No	OLD	NEW	Sche. Diagram No.	LOCATION	Reason of modification
RXPLL-A	F11403	---	FL-396	A5-6C3	5M	Added BW3kHz to RX 1st IF filter, in order to improve blocking dynamic range of main RX characteristics.
	IC1402	UPG2009TB	NJG1519KC1	A5-6C3	4L	
	IC1403	UPG2009TB	NJG1519KC1	A5-6C3	4N	
	C1457	---	0.01 C1608 B	A5-6C3	5L	
	L1410	---	LS-484B	A5-6C3	5M	
	C1451	---	12P C1608 CH	A5-6C3	5M	
	C1453	---	15P C1608 CH	A5-6C3	5M	
	C1454	---	15P C1608 CH	A5-6C3	5M	
	C1456	---	12P C1608 CH	A5-6C3	5N	
L1411	---	LS-484B	A5-6C3	5N		
C1458	---	0.01 C1608 B	A5-6C3	4N		
RXPLL-B	F11403	---	FL-397	A5-6C3	5M	Added BW3kHz to RX 1st IF filter, in order to improve blocking dynamic range of sub RX characteristics.
	IC1402	UPG2009TB	NJG1519KC1	A6-6C3	4L	
	IC1403	UPG2009TB	NJG1519KC1	A6-6C3	4N	
	C1457	---	0.01 C1608 B	A6-6C3	5L	
	L1410	---	LS-484B	A6-6C3	5M	
	C1451	---	12P C1608 CH	A6-6C3	5M	
	C1453	---	15P C1608 CH	A6-6C3	5M	
	C1454	---	15P C1608 CH	A6-6C3	5M	
	C1456	---	12P C1608 CH	A6-6C3	5N	
L1411	---	LS-484B	A6-6C3	5N		
C1458	---	0.01 C1608 B	A6-6C3	4N		
RXPLL-A	C219	---	0.0047 C1608 B	A5-6C1	2E	Improved phase noise characteristics of 1st Lo in order to improve main RX blocking dynamic range. Loop filter circuit of PLL for 1st Lo because of this modification.
	R210	1K ERA3YE D	1.8K ERA3YE D	A5-6C1	2F	
	R217	---	82 ERA3YE D	A5-6C1	2F	
	C211	---	3.3 10V F93	A5-6C1	2F	
	R219	---	100 ERA3YE D	A5-6C1	2G	
	C209	---	470P C1608 CH	A5-6C1	2G	
	Q202	2SK880	---	A5-6C1	2F	
	Q203	2SC3324	---	A5-6C1	2F	
	Q204	2SC3324	---	A5-6C1	2F	
	Q221	2SC4081	---	A5-6C1	1G	
	R211	4.7K ERJ3GE	---	A5-6C1	1G	
	R212	1K ERA3YE D	---	A5-6C1	2F	
	R213	1K ERA3YE D	---	A5-6C1	2F	
	R214	1K ERA3YE D	---	A5-6C1	2F	
	R215	470 ERA3YE D	---	A5-6C1	1F	
	R216	470 ERA3YE D	---	A5-6C1	2G	
	C213	0.0047 C1608 B	---	A5-6C1	1F	
	C214	0.01 C1608 25V B	---	A5-6C1	1F	
C215	10 16V EEE-S B	---	A5-6C1	1G		
C216	4.7 10V F93 M A	---	A5-6C1	1F		
C217	4.7 10V F93 M A	---	A5-6C1	1F		
RXPLL-B	C219	---	0.0047 C1608 B	A6-6C1	2E	Improved phase noise characteristics of 1st Lo in order to improve sub RX blocking dynamic range. Loop filter circuit of PLL for 1st Lo because of this modification.
	R210	1K ERA3YE D	1.8K ERA3YE D	A6-6C1	2F	
	R217	---	82 ERA3YE D	A6-6C1	2F	
	C211	---	3.3 10V F93	A6-6C1	2F	
	R219	---	100 ERA3YE D	A6-6C1	2G	
	C209	---	470P C1608 CH	A6-6C1	2G	
	Q202	2SK880	---	A6-6C1	2F	
	Q203	2SC3324	---	A6-6C1	2F	
	Q204	2SC3324	---	A6-6C1	2F	
	Q221	2SC4081	---	A6-6C1	1G	
	R211	4.7K ERJ3GE	---	A6-6C1	1G	
	R212	1K ERA3YE D	---	A6-6C1	2F	
	R213	1K ERA3YE D	---	A6-6C1	2F	
	R214	1K ERA3YE D	---	A6-6C1	2F	
	R215	470 ERA3YE D	---	A6-6C1	1F	
	R216	470 ERA3YE D	---	A6-6C1	2G	
	C213	0.0047 C1608 B	---	A6-6C1	1F	
	C214	0.01 C1608 25V B	---	A6-6C1	1F	
C215	10 16V EEE-S B	---	A6-6C1	1G		
C216	4.7 10V F93 M A	---	A6-6C1	1F		
C217	4.7 10V F93 M A	---	A6-6C1	1F		