

ELECTRICAL SPECIFICATION:

freq. range (MHz)	RX 706 - 716	TX1 728 - 738	TX2 758 - 768
Insertion Loss (dB)	< 2.0 TBD	< 2.0 TBD	< 2.0 TBD
Return Loss – all ports(dB)	> 20.0	> 20.0	> 20.0
Isolation (dB)	> 100.0	> 70.0	> 70.0
Power Handling (W)	50W avg.	50W avg.	50W avg.
DC continuity	none		
Impedance	50 Ω nominal		
PIM distortion @ 2x43dBm	< -160 dBc		

ENVIRONMENTAL SPECIFICATION:

Temp. range	TBD
Humidity	TBD
Sealing	indoor
Housing material	aluminum
Housing finish	none
Weight [g]	TBD

OUTLINE DRAWINGS [mm]:

Connectors	TBD press in N female brass CuSnZn plated (optaloy)
------------	---

ADDITIONAL DATA:

RX path isolation calculation:

required PIM tester noise level	170	dBc
GSM/EDGE Tx mask over 12MHz*	<u>-73</u>	dB
required PIM tester TX attenuation	97	dB

*<http://www.maxim-ic.com/app-notes/index.mvp/id/1886>

TX1 and TX2 path isolation:

not critical if after amplifiers circulators are used, in our PIM tester there is 70dB

PIM measurements range:		
TX1	TX2	PIM
732-737MHz	758MHz	706-716MHz
738MHz	760-768MHz	706-716MHz



