双通带腔体双工器

KXT-DP-51505850 5 GHz Wi-Fi 双通带

项目	指标
CH1 工作频率	5150–5370 MHz
CH1 带宽	220 MHz
CH1 插入损耗	≤ 1.0 dB
CH1 带内波动	≤ 0.8 dB
CH1 端口驻波	≤ 1.3
CH1 回波损耗	≥ 17.7 dB（由驻波换算）
CH2 工作频率	5450–5850 MHz
CH2 带宽	400 MHz
CH2 插入损耗	≤ 1.0 dB
CH2 带内波动	≤ 0.8 dB
CH2 端口驻波	≤ 1.3
CH2 回波损耗	≥ 17.7 dB（由驻波换算）
功率容量	≥ 100 W 平均
接头	SMA 母头
工作温度	−30 °C ~ +70 °C
外形尺寸	待定 / TBD
外观	铝合金腔体，导电氧化

外形待定

带外抑制 / 端口隔离

端口	频段或频点	指标
CH1	5450–5850 MHz	≥ 80 dB
CH2	5150–5370 MHz	≥ 80 dB

本系列统一规范（订货与出厂）

特性阻抗	50 Ω
使用场合	室内型
腔体	铝合金，导电氧化
测试条件	25 °C，50 Ω，矢量网络分析仪
低互调订货档	PIM3 ≤ −150 dBc @ 2×43 dBm
湿度	0 ~ 95% RH
储存温度	−30 °C ~ +70 °C
机械	原稿尺寸栏为待定。

说明

· 原稿插损、波动未写不等号，本版按最大允许值规范为 ≤。
· 回波损耗由端口驻波比 ≤ 1.3 换算：RL = −20 log10((VSWR−1)/(VSWR+1)) ≈ 17.7 dB。
· 低互调档是订货选项。原稿没有给出实测互调，未选该档时不作为本页保证值。需要时按 2×43 dBm 测试并附报告。
· 原稿正文标题为双工器，文件名写作滤波器。本页按双通带双工器出具。带宽 220 MHz 与 400 MHz 来自原稿。
· 规格来源：5150-5370-5450-5850滤波器技术规格书.docx

订货写法：KXT-DP-51505850 + 接头公母 + 颜色（本色/黑色） + 是否低互调档 + 数量。

English

Dual-band Cavity Diplexer

KXT-DP-51505850 5 GHz Wi-Fi, two passbands

Item	Specification
CH1 Passband	5150–5370 MHz
CH1 Bandwidth	220 MHz
CH1 Insertion loss	≤ 1.0 dB
CH1 Passband ripple	≤ 0.8 dB
CH1 VSWR	≤ 1.3
CH1 Return loss	≥ 17.7 dB (from VSWR)
CH2 Passband	5450–5850 MHz
CH2 Bandwidth	400 MHz
CH2 Insertion loss	≤ 1.0 dB
CH2 Passband ripple	≤ 0.8 dB
CH2 VSWR	≤ 1.3
CH2 Return loss	≥ 17.7 dB (from VSWR)
Power handling	≥ 100 W average
Connector	SMA female
Operating temperature	−30 °C ~ +70 °C
Outline	待定 / TBD
Finish	Aluminum cavity, conductive oxidation

Outline TBD

Rejection / port isolation

Port	Band or point	Limit
CH1	5450–5850 MHz	≥ 80 dB
CH2	5150–5370 MHz	≥ 80 dB

Series standard (order and shipment)

Impedance	50 Ω
Use	Indoor
Construction	Aluminum alloy, conductive oxidation
Test condition	25 °C, 50 Ω, vector network analyzer
Low-PIM order option	PIM3 ≤ −150 dBc @ 2×43 dBm
Humidity	0 ~ 95% RH
Storage	−30 °C ~ +70 °C
Mechanical	The source sheet leaves the outline as TBD.

Notes

· The source sheet gave insertion loss and ripple without a symbol. This revision states them as maximum values (≤).
· Return loss is calculated from VSWR ≤ 1.3: RL = −20 log10((VSWR−1)/(VSWR+1)) ≈ 17.7 dB.
· Low PIM is an order option. The source sheet has no measured PIM, so it is not a guaranteed value unless that option is ordered and reported.
· The source heading says duplexer; the file name says filter. This sheet is issued as a two-passband diplexer. Bandwidths 220 MHz and 400 MHz are from the source.
· Source specification: 5150-5370-5450-5850滤波器技术规格书.docx

Order as: KXT-DP-51505850 + connector gender + finish (natural/black) + low-PIM option + quantity.