

## Diplexer 双工器

### ■ Feature 特点

**Compact Size 体积小**

Miniaturized SMD packaged in low profile and lightweight.

**Low Loss 低插入损耗**

Low insertion loss, high attenuation.

**High Soldering Heat Resistance 耐高温表面焊接**

High quality termination allows both flow and re-flow soldering methods to be applied.

**High Performance 特性优良**

Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

**Available in tape and reel packaging for automatic mounting 卷轴包装适用于表面贴片技术**

**AEC-Q200 certificated 通过 AEC-Q200 测试**

### ■ Product Identification 产品型号

ATD - 1608 - ###xx - A1 - □□  
①                      ②                      ③                      ④                      ⑤

- ① Product Code
- ② Dimension Code
- ③ Series Type (### represents center frequency and xx represents material type)
- ④ Design Code
- ⑤ Pattern Code

### ■ Application 用途

Diplexers for automotive WiFi/ BT/ LTE connection

Electrical Specification 电气规格

Part No. 型号	Port 埠	Pass Band 带宽 (MHz)	Insertion Loss 插入损耗	VSWR 电压 驻波比	Attenuation 带外抑制
ATD-1608-0G9S3-B1	Common to Low Freq. Port	700~787	0.38 dB max.	1.60 max.	12.0dB min. at 1710 ~ 2170MHz
		824~960	0.40 dB max.	1.60 max.	11.0 dB min. at 2400 ~2500MHz
	Common to High Freq. Port	1700~2170	0.43 dB max.	1.70 max.	12.5 dB min at 700~ 787 MHz
		2400~2500	0.55 dB max.	2.10 max.	16.0 dB min. at 824~960 MHz
	Common Port	700~787		1.60 max.	-
		824~960		1.60 max.	
1700~2170		1.70 max.			
2400~2500		2.10 max.			
ATD-2012-0G9S3-B1	Common to Low Freq. Port	698~960	0.5 dB max.	1.6 max.	5 dB min. at 1565~1607 MHz 10.5 dB min. at 1710~2690 MHz
		1710~2690	0.6 dB max.	2.0 max.	15 dB min. at 698~960 MHz
	Common Port	698~960		1.6 max.	-
		1710~2690		2.0 max.	
ATD-2012-0G9S3-A2	Common to Low Freq. Port	698~960	0.5 dB max.	1.6 max.	5.0 dB min. at 1565~1607 MHz 10.5 dB min. at 1710~2690 MHz
		1710~2690	0.6 dB max.	1.6 max.	15 dB min. at 698~960 MHz
	Common Port	698~960		2.0 max.	-
		1710~2690		2.0 max.	
ATD-1608-2G4S1-A7	Common to Low Freq. Port	2400~2500	0.6 dB max.	2.0 max.	20 dB min. at 4800~6000 MHz 20 dB min. at 7200~7500 MHz
		5100~5900	1.4 dB max.	2.0 max.	35 dB min. at 2400~ 2500 MHz 18 dB min. at 3300~ 3900 MHz 12 dB min. at 9800~11900 MHz
	Common Port	2400~2500	-	2.0 max.	-
		5100~5900		2.0 max.	
ATD-1608-2G4S1-A8	Common to Low Freq. Port	2400~2500	0.6 dB max.	2.0 max.	20 dB min. at 4800~6000 MHz 20 dB min. at 7200~7500 MHz
		5100~5900	1.4 dB max.	2.0 max.	35 dB min. at 2400~ 2500 MHz 18 dB min. at 3300~ 3900 MHz 12 dB min. at 9800~11900 MHz
	Common Port	2400~2500	-	2.0 max.	-
		5100~5900		2.0 max.	
ATD-1608-2G4S3-A3	Common to Low Freq. Port	2400~2500	0.60 dB max.	2.0 max.	25 dB min. at 4800~6000 MHz 25 dB min. at 7200~7500 MHz
		4900~5950	1.20 dB max.	2.0 max.	28 dB min. at 30~ 2700 MHz 15 dB min. at 9800~11900 MHz 5 dB min. at 14700~17850 MHz
	Common Port	2400~2500	-	2.0 max.	-
		4900~5950		2.0 max.	

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ATD-1608- 2G4S3-A4	Common to Low Freq .Port	2400~2500	0.60 dB max.	2.0 max.	25 dB min. at 4800~6000 MHz 25 dB min. at 7200~7500 MHz
	Common to High Freq .Port	4900~5950	1.20 dB max.	2.0 max.	28 dB min. at 30~ 2700 MHz 15 dB min. at 9800~11900 MHz 5 dB min. at 14700~17850 MHz
	Common Port	2400~2500 4900~5950	-	2.0 max. 2.0 max.	-
ATD-1608- 2G4S3-A9	Common to Low Freq .Port	2400~2500	0.70 dB max.	2.0 max.	25 dB min. at 4800~6000 MHz 23 dB min. at 7200~7500 MHz
	Common to High Freq .Port	4900~5950	1.10 dB max.	2.0 max.	23 dB min. at 1800~ 2700 MHz 18 dB min. at 9800~11900 MHz
	Common Port	2400~2500 4900~5950	-	2.0 max. 2.0 max.	-
ATD-1608- 2G4S3-A10	Common to Low Freq .Port	2400~2500	0.70 dB max.	2.0 max.	25 dB min. at 4800~6000 MHz 23 dB min. at 7200~7500 MHz
	Common to High Freq .Port	4900~5950	1.10 dB max.	2.0 max.	23 dB min. at 1800~ 2700 MHz 18 dB min. at 9800~11900 MHz
	Common Port	2400~2500 4900~5950	-	2.0 max. 2.0 max.	-
ATD-1608- 2G4S3-Z15	Common to Low Freq .Port	2400~2500	0.45 dB max.	2.0 max.	23 dB min. at 4800 ~ 6000 MHz 25 dB min. at 7200 ~ 7500 MHz
	Common to High Freq .Port	4900~5950	0.7 dB max.	2.0 max.	27 dB min. at 824 ~ 2170 MHz 32 dB min. at 2400 ~ 2500 MHz 20 dB min. at 9800 ~ 11900 MHz
	Common Port	2400~2500 4900~5950	-	2.0 max. 2.0 max.	-
ATD-1608- 2G4S3-Z16	Common to Low Freq .Port	2400~2500	0.45 dB max.	2.0 max.	23 dB min. at 4800 ~ 6000 MHz 25 dB min. at 7200 ~ 7500 MHz
	Common to High Freq .Port	4900~5950	0.7 dB max.	2.0 max.	27 dB min. at 824 ~ 2170 MHz 32 dB min. at 2400 ~ 2500 MHz 20 dB min. at 9800 ~ 11900 MHz
	Common Port	2400~2500 4900~5950	-	2.0 max. 2.0 max.	-
ATD-1608- 2G4S3-A17	Common to Low Freq .Port	2400~2500	0.45 dB max.	2.0 max.	20 dB min. at 4800 ~ 5000 MHz 22 dB min. at 5000 ~ 5950 MHz 20 dB min. at 7200 ~ 7500 MHz
	Common to High Freq .Port	4900~5950	0.70 dB max.	2.0 max.	26 dB min. at 824 ~ 2170 MHz 30 dB min. at 2400 ~ 2500 MHz 25 dB min. at 9800 ~11900 MHz
	Common Port	2400~2500 4900~5950	-	2.0 max. 2.0 max.	-

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ATD-1608- 2G4S3-A18	Common to Low Freq. Port	2400~2500	0.45 dB max.	2.0 max.	20 dB min. at 4800 ~ 5000 MHz 22 dB min. at 5000 ~ 5950 MHz 20 dB min. at 7200 ~ 7500 MHz
	Common to High Freq. Port	4900~5950	0.70 dB max.	2.0 max.	26 dB min. at 824 ~ 2170 MHz 30 dB min. at 2400 ~ 2500 MHz 25 dB min. at 9800 ~ 11900 MHz
	Common Port	2400~2500 4900~5950	-	2.0 max. 2.0 max.	-
ATD-2012- 2G4H6-A11	Common to Low Freq. Port	2400~2500	2.4 dB max.	2.0 max.	30 dB min. at 824 ~ 915 MHz 25 dB min. at 1710~1910 MHz 20 dB min. at 2170 MHz 27 dB min. at 4800~5000 MHz 20 dB min. at 7200~7500 MHz
	Common to High Freq. Port	5150~5850	1.0 dB max.	2.0 max.	25 dB min. at 2400~ 2500 MHz 20 dB min. at 10300~11700 MHz
	Common Port	2400~2500 5150~5850	-	2.0 max. 2.0 max.	-
ATD-2012- 2G4S1-D1	Common to Low Freq. Port	2400~2500	0.7 dB max.	2.0 max.	20 dB min. at 4800~6000 MHz 15 dB min. at 7200~7500 MHz
	Common to High Freq. Port	4900~5950	1.0 dB max.	2.0 max.	20 dB min. at 1800~ 2500 MHz 20 dB min. at 9800~11900 MHz
	Common Port	2400~2500 4900~5950	-	2.0 max. 2.0 max.	-
ATD-2012- 2G4S1-D2	Common to Low Freq. Port	2400~2500	0.7 dB max.	2.0 max.	20 dB min. at 4800~6000 MHz 20 dB min. at 7200~7500 MHz
	Common to High Freq. Port	4900~5950	1.0 dB max.	2.0 max.	20 dB min. at 1800~ 2500 MHz 25 dB min. at 9800~11900 MHz 15 dB ref. at 14700~17850 MHz
	Common Port	2400~2500 4900~5950	-	2.0 max. 2.0 max.	-
ATD-2012- 2G4S1-A3	Common to Low Freq. Port	2400~2500	0.7 dB max.	1.7 max.	20 dB min. at 4800~6000 MHz
	Common to High Freq. Port	4900~5850	0.9 dB max.	1.8 max.	20 dB min. at 2400~2500 MHz
	Common Port	2400~2500 4900~5850	-	1.7 max. 1.8 max.	-
ATD-2012- 2G4S1-A4	Common to Low Freq. Port	2400~2500	0.7 dB max.	1.7 max.	20 dB min. at 4800~6000 MHz
	Common to High Freq. Port	4900~5850	0.9 dB max.	1.8 max.	20 dB min. at 2400~2500 MHz
	Common Port	2400~2500 4900~5850	-	1.7 max. 1.8 max.	-

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ATD-2012-2G4S1-B5	Common to Low Freq. Port	2400~2500	0.5 dB max.	2.0 max.	20 dB min. at 4800~5000 MHz 20 dB min. at 7200~7500 MHz
	Common to High Freq. Port	4900~5950	1.0 dB max.	2.0 max.	20 dB min. at 1800~ 2500 MHz 15 dB min. at 9800~11900 MHz
	Common Port	2400~2500	-	2.0 max.	-
4900~5950		2.0 max.			
ATD-2012-2G4S1-B6	Common to Low Freq. Port	2400~2500	0.5 dB max.	2.0 max.	20 dB min. at 4800~5000 MHz 20 dB min. at 7200~7500 MHz
	Common to High Freq. Port	4900~5950	1.0 dB max.	2.0 max.	20 dB min. at 1800~ 2500 MHz 15 dB min. at 9800~11900 MHz
	Common Port	2400~2500	-	2.0 max.	-
4900~5950		2.0 max.			
ATD-2012-2G4S5-A5	Common to Low Freq. Port	2400~2500	0.8 dB max.	2.0 max.	15 dB min. at 3600 MHz 27 dB min. at 4800~5000 MHz 20 dB min. at 7200~7500 MHz
	Common to High Freq. Port	4900~5950	1.0 dB max.	2.0 max.	22 dB min. at 824~ 915 MHz 19 dB min. at 1800~ 2500 MHz 14 dB min. at 3000~ 3900 MHz 20 dB min. at 9800~11900 MHz
	Common Port	2400~2500	-	2.0 max.	-
4900~5950		2.0 max.			
ATD-2012-2G4S3-A7	Common to Low Freq. Port	2400~2500	0.5 dB max.	2.0 max.	20 dB min. at 4800~6000 MHz 22 dB min. at 7200~7500 MHz
	Common to High Freq. Port	4900~5950	0.65 dB max.	2.0 max.	22 dB min. at 824~ 915 MHz 22 dB min. at 1800~ 2500 MHz 15 dB min. at 9800~11900 MHz
	Common Port	2400~2500	-	2.0 max.	-
4900~5950		2.0 max.			
ATD-2012-2G4S3-A8	Common to Low Freq. Port	2400~2500	0.5 dB max.	2.0 max.	20 dB min. at 4800~6000 MHz 22 dB min. at 7200~7500 MHz
	Common to High Freq. Port	4900~5950	0.65 dB max.	2.0 max.	22 dB min. at 824~ 915 MHz 22 dB min. at 1800~ 2500 MHz 15 dB min. at 9800~11900 MHz
	Common Port	2400~2500	-	2.0 max.	-
4900~5950		2.0 max.			

**NOTES**

Please contact us for detail information.