承 認 書

APPROVAL SHEET

CUSTOMER: 連宇股份有限公司
CUSTOMER MODEL NO.:
CUSTOMER MODEL NO.:
JOYMAX MODEL NO.: CBF-A045MPXX-167
DESCRIPTION #A045 PCB Antenna
REV.: 03
DATE 2014/9/24

Customer Approval

Joymax Approval



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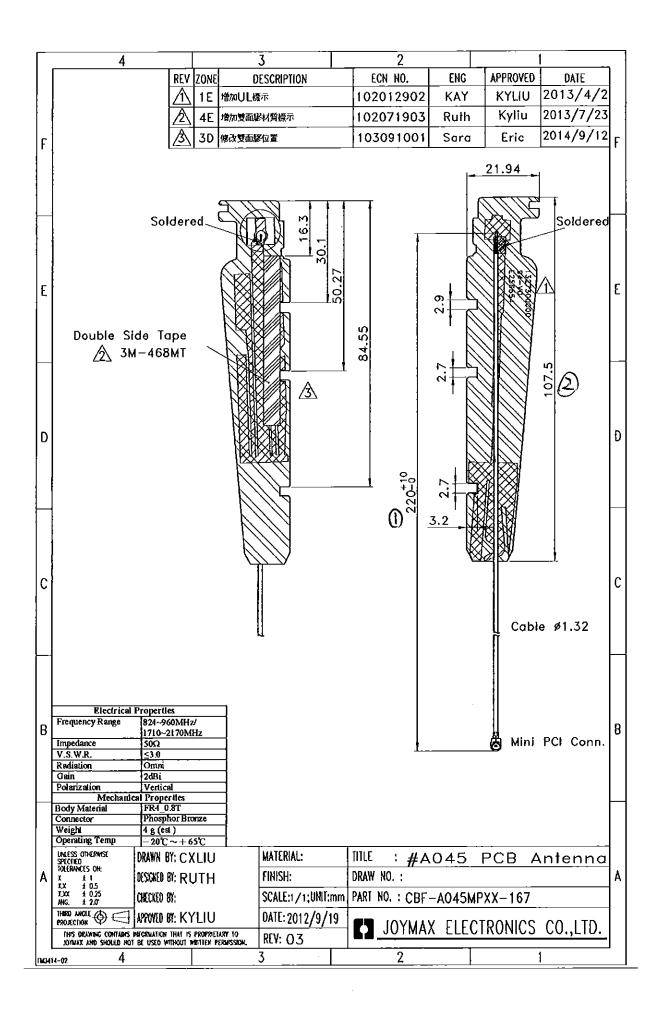
Index.

Item

- 1. Drawing
- 2. Test report
 - · Electrical test
 - · Pattern test
- 3. Specification
 - · Connector
 - · Cable
- 4. Packing
 - · PE Bag
 - · Carton

Modification History:

Rev.	Date	Content
00	2012/9/18	
01	2013/3/22	
02	2013/7/22	增加雙面膠材質標示
03	2014/9/24	修改雙面膠位置

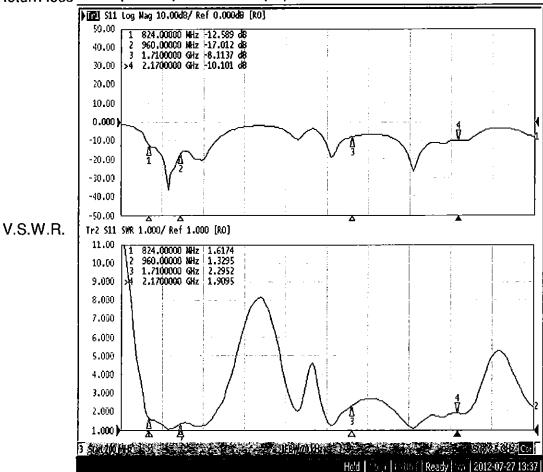


Model. CBF-A045MPXX-167

Test Report

Return Ioss/V.S.W.R

Return loss 1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State



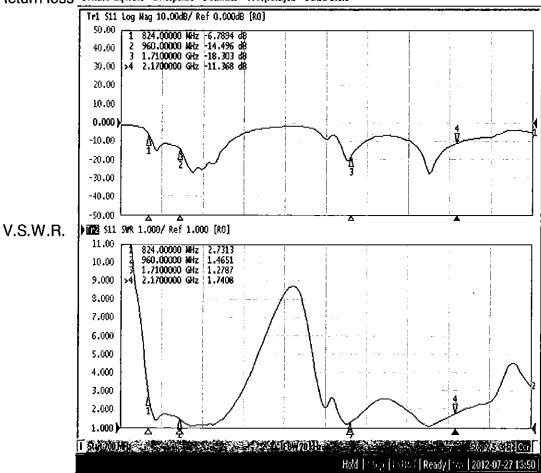


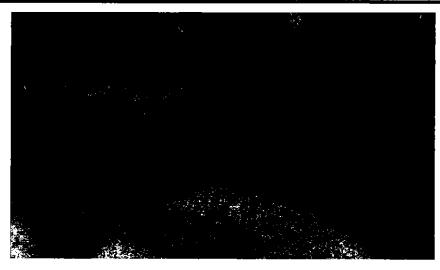
Model. CBF-A045MPXX-167

Test Report

Return loss/V.S.W.R

Return loss | Active Ch/Trace | 2 Response | 3 Stimulus | 4 Mkr/Analysis | 5 Instr State





Connector

Mini PCI Conn

Specif	ication
Data	

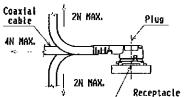
1) Impedance	50 ±2 Ω (TDR)
2) Frequency Range	0~6GHz
3) V.S.W.R.	1.3Max.(DC0.1~3GHz),1,5Max.(3~6GHz)
4) Iusulation resistance	≥500 MΩ.km
5) Dielectric withstanding voltage	AC1000V,1 minute No creeping discharge

Environmental 1) Operating Temperature

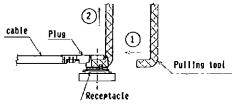
-40°C ~ +90°C

Data

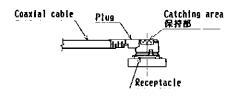
2) Permissible load of cable at matin; coaxiat



3) In case of unmating by pulling tool: Please use the pulling tool as the following drawing and please pull plug to vertical direction as directly as possible



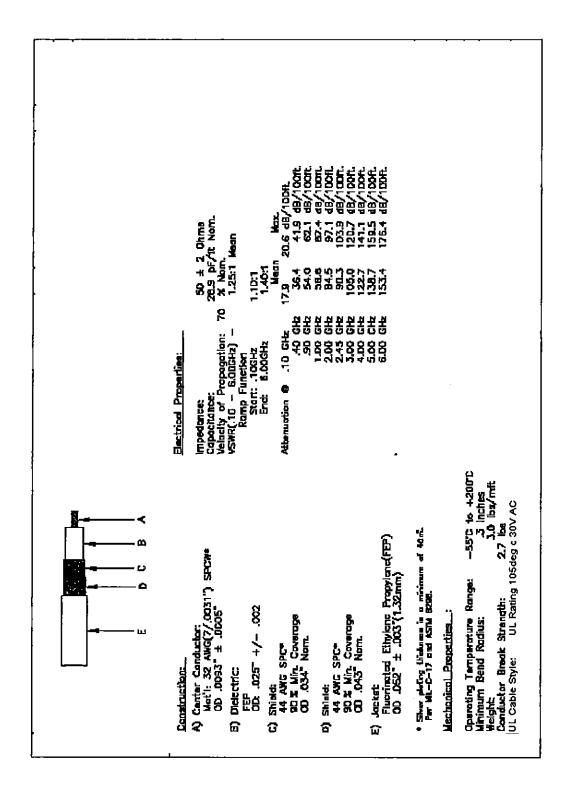
4) In case of unmating directly by hand: Please catch the catching area of plug and please pull plug to vertical direction as directly as possible.



Material Specifications

Material Data Material 1) Body Phosphor Bronze 2) Contact Phosphor Bronze 3) Insulator PBT (UL94-V0)

Cable 1.32



UL JOYMAX

File E256554

Vol. 1

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Issued: 2006-01-25 Revised: 2006-06-23

TABLE II - BASE MATERIALS

		Base Material 4											
	Ind	Individual Laminate Matl. Individual Bonding Sheet Matl.							Total	Con-		Meets	
Туре	UL/ ANSI Grade	Mfr.	Grade	Min. Thk. (mic)	UL/ ANSI Grade	Kfr.	Grade	Min. Thk. (mic)	Build- Up Thk. (mm)	ductor Thk.# (mic)	PWB Kfg. Proc.	UL 746E DSR	CTI (PLC)
×	FR-4	የሃ	FR 4-86, UV Block FR-4-86	100	FR-4	NY	NP-140B	50	0.38	E:17 1:68	A-M	Yes	
	FR-4	Ж	NP-140R, NP-140TL	100	FR-4	МХ	NP-140B	50	0.38	E;17 I:68	A-M	Yes	-
	FR-4	TL.	LS-4Y	100	FR-4	МУ	NP-140B	50	0.38	B:17 I:68	а-м	Yes	

- & · Recognized Component, (QMTS2)
- NY: Nan Ya (E98983); TL: Taiwan Leader (E176891).
- # I = Maximum internal thickness; E = Minimum external thickness

SOLDER RESISTS

1	Турев	Process	Solder Resists ⁴
	М	A-M	1, 2, 3, 4

Solder Resist Grades (Recognized Component, QMJU2):

	Solder_Resist								
No.	Manufacturer	Grade	File Number						
1.	Taiyo	PSR-2000AM/CA-25 (GN, BL)	B69262						
2.	Таіуо	PSR-2000AN/CA-25AA (GN, RD, BL, YL, WT)	E69262						
3.	Taiyo	PSR-2000BK/CA-25BK (GN)	B69262						
1.	Taiyo	PSR-4000CD/CA-40CB (BK)	E69262						
5.									
6,									
7.									
8.									
9.									
10.									
11.									
12.									

TABLE II - BASE MATERIALS

	Base Material &			_	Min.			Meets	
Туре	UL/ ANSI Grade	M£r +	Grade	Min. Thk. (mm)	Copper Thk. (mic)	SS/ DS ⁹	PWB Mfg. Process	UL 746E DSR	CTI (PLC)
DS-1	FR-4	NY	FR-4-86, UV Block FR-4-86	0.18	33	ns	λ-D	Yes	-
DS	FR-4	NY	FR-4-86, UV Block FR-4-86	0.38	17	DS	A-D	Yes	- L
	FR-4	NY	NP-140TL	0.38	17	DS	V-D	Yes	
	FR-4	TL	LS-4Y	0.38	17	DS	A-D	Yes	

- & Recognized Component, (QNTS2)
- @ SS Single Sided; DS Double Sided or Single Sided
- + NY: Nan Ya (E98983); TL: Taiwan Leader (E176891).

SOLDER RESISTS

Турея	Process	Solder Resists [®]
DS-1	λ-D	1, 3
DS	N-D	2, 4, 5, 6

@ - Solder Resist Grades (Recognized Component, QMJU2):

	Solder Resist								
No.	Manufacturer	Grade	File Number						
1.	Taiyo	PSR-2000AM/CA-25 (BL)	R69262						
2.	Taiyo	PSR-2000AM/CA-25 (GN, BL)	E69262						
3.	Taiyo	PSR-2000AN/CA-25AA (GN)	E69262						
4.	Taiyo	PSR-2000AN/CA-25AA (GN, RD, BL, YL, WT)	B69262						
5.	Taiyo	PSR-2000BK/CA-25BK (GN)	E69262						
6.	Taiyo	PSR-4000CD/CA-40CB (DK)	E69262						
7.									
8									
9.									
10.									
11.									
12.									

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ZPMV2.E256554 Wiring, Printed - Component

Enhanced searching capability for this category can be found in UL's iQ Family of Databases (iq.ul.com).

Fage Bottom

Wiring, Printed - Component

See General Information for Wiring, Printed - Component

TURBOARD TECHNOLOGICS INC

107 SEC 1 CHANGXING RD

LUZHU SHIANG

TACYUAN HSIEN, 338 TAIWAN

E256554

	Cond	Max			Max						
		Min	Cond	55/	Area	So	lder	Oper		Meets	C
	Min	Edge	Thk	DS/	Diam	Lin	nits	Temp	Flame	UL796	Υ
Type	mm(in)	enn)(in)	mic(mil)	DSO	mm(ln)	С	sec	c	Class	DSR	1
Multil	ayer printed	wiring boards	· .				,,,				-
М	0.07 (0.003)	0.10 (0.004)	17 (0.67) Int:68	DS	76.2 (3.0)	288	10	130	V-0	All	-
Single	layer printe	d wiring boar	ds.	•			•			•	
DS	0.07 (0.003)	0.10 (0.004)	17 (0.67)	DS	76.2 (3.0)	288	10	130	V-0	Ali	-
D5-1	0.07 (0.003)	0.07 (0.003)	33 (1.30)	DS	76.2 (3.0)	280	10	105	V-0	Ali	-

^{* -} CTI PLC is marked on individual board.

Marking: Company name or trademark Through , TB and type designation. May be followed by a suffix to denote factory identification.

Last Updated on 2010-04-17

Questions?

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