



PLANAR MONOLITHICS INDUSTRIES, INC.
 7311-G GROVE RD., FREDERICK MD.21704
 TEL: 301-631-1579 FAX: 301-662-2029
 URL: WWW.PLANARMONOLITHICS.COM
 E-MAIL: SALES@PLANARMONOLITHICS.COM
 ISO 9001:2000 CERTIFIED

FORM: RFOC-SS-DTA
 DATE: 2-14-06

**ACCEPTANCE TEST DATA SHEET
 ON
 RF OSCILLATOR COMPONENT CONSOLIDATION / RF SUB-ASSEMBLY**

CUSTOMER: _____
 JOB NO: _____
 MODEL NO: RFOC-811-QRC
 SERIAL NO: PM602916

ENGINEER: Yu Rong
 CUSTOMER PN: 4500671963
 OPTION NO: _____
 FREQUENCY RANGE: 8 TO 11 GHz

PARAMETERS TO BE TESTED			SPECIFIED		MEASURED		NOTES
FREQUENCY			8 TO 11 GHz				
Selected Path Gain/Loss	Input Port	Output Port	Min.	Max.			
	J1005	J1014	3dB	-	7.16 to 10.34		Set AT8 to min. and SW8 ON
	J1005	J1007	6dB	20dB	14.0 to 15.75		Set SW2 ON
	J1013	J1014	10dB	23dB	10.6 to 15.4		SET AT2 TO MIN. SET AT7 AND AT8 TO MAX. SET SW7 AND SW8 OFF
	J1013	J1014	0dB	13dB	4.18 to 8.21		SET AT2 TO MAX. SET AT7 AND AT8 MIN. SET SW7 AND SW8 ON
	J1013	J1007	3dB	16dB	11.2 to 13.7		SET AT7 TO MINI AND SET SW7 ON
	J1006	J1015	-	-10dB	-5.58 to -3.9		SET AT1 TO MIN., SET SW1, K1 TO ON
	J1006	J1012	3dB	20dB	8.5 to 11.6		SET AT1 TO MIN., SET SW1 TO ON, SET K1 TO OFF
	J1016	J1012	3dB	20dB	9.8 to 12.5		SET AT6 TO MIN. AND SET SW6 TO ON
	J1017	J1012	3dB	20dB	10.1 to 12.1		SET AT3 TO MIN. AND SW3 TO ON
	J1011	J1012	3dB	20dB	10.5 to 12.6		SET AT5 TO MIN. AND SW5 TO ON
	J1008	J1009	6dB	16dB	14.14 to 16.2		SET AT4 TO MIN. AND SW4 TO ON
	J1008	J1010	9dB	19dB	17.6 to 18.5		
Output Power	Output Ports		Min. (dBm)	Max. (dBm)	Min (dBm)	Max (dBm)	
	J1007		11.65	11.65	+20	+20	SET SW2, SW7, SW8 ON
	J1014		-50.0	+6.92	<-78	>+12.8	
	J1015		-50.0	+5.0	-60.0	+8.7	SET SW1 ON, SET K1 SWITCHED TO J1015
	J1012		-60.0	+13	<-78	+21.5	SET K1, SW1, SW5, SW6 OFF, SET SW3 ON SET K1, SW1, SW3, SW6 ON
	J1009		-60.0	-0.35	<-78	+4.15	SET SW4 ON
J1010		-45.35	+4.65	-45.9	+8.04		



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	Input	Output	Min.	Goal	Min.	
	Isolation	J1013	J1012	55dB	70dB	
J1009			55dB	70dB	74.9dB	
J1010			55dB	70dB	73.8dB	
J1008		J1012	55dB	70dB	54dB*	
		J1014	55dB	70dB	64dB	
J1005		J1012	55dB	70dB	70.5dB	
		J1009	55dB	70dB	79.3dB	
		J1010	55dB	70dB	76.8dB	
J1016		J1014	55dB	70dB	74.5dB	
		J1009	55dB	70dB	75.6dB	
J1012		J1014	55dB	70dB	81dB	
		J1010	55dB	70dB	77.6dB	
J1011	J1014	55dB	70dB	71dB		
	J1010	55dB	70dB	73.8dB		
VSWR	INPUTS	J1005	2.0:1		1.40:1	NOT REQUIRED FOR ACCEPTANCE TEST REPORT
		J1013	2.0:1		1.48:1	
		J1006	2.0:1		1.58:1	
		J1016	2.0:1		1.66:1	
		J1017	2.0:1		1.61:1	
		J1011	2.0:1		1.41:1	
		J1008	2.0:1		1.27:1	
	OUTPUTS	J1007	2.5:1		1.28:1	
		J1014	2.5:1		2.0:1	
		J1015	2.5:1		1.84:1	
		J1012	2.5:1		1.34:1	
		J1009	2.5:1		1.74:1	
		J1010	2.5:1		1.36:1	
		RF Paths				
Throughput delay	J1008	J1009	10ns		2.45ns	
	J1008	J1010	10ns		2.81ns	
	J1006	J1012	10ns		3.65ns	
	J1006	J1015	10ns		2.03ns	
	J1011	J1012	10ns		2.45ns	
	J1017	J1012	10ns		2.41ns	
	J1016	J1012	10ns		2.45ns	
	J1013	J1014	10ns		3.3ns	AT2,AR3 PATH
	J1013	J1014	10ns		4.42ns	AT7,AT8 PATH
	J1013	J1007	10ns		2.07ns	
	J1005	J1014	10ns		4.85ns	
	J1005	J1007	10ns		2.48ns	
SWITCH ON/OFF	SWITCH		ON (ns)	OFF (ns)	ON (ns)	OFF (ns)
	SW1		50	50	26	37.2
	SW2		50	50	25	49.2
	SW3		50	50	24.4	50
	SW4		50	50	24	30



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	SW5	50	50	22.8	50	
	SW6	50	50	25	50	
	SW7	50	50	24.2	48.6	
	SW8	50	50	30	38.8	
ATTENUATOR ON/OFF	ATTENUATOR	Rise (μ s)	Fall (ns)	Rise (μ s)	Fall (ns)	
	AT1	1.6	100	1.56	29.2	
	AT2	1.6	100	1.52	22	
	AT3	1.6	100	1.58	25.6	
	AT4	1.6	100	1.48	33	
	AT5	1.6	100	1.50	25.8	
	AT6	1.6	100	1.52	25.2	
	AT7	1.6	100	1.46	27.6	
	AT8	1.6	100	1.54	24.4	
DEPTH OF MODULATION	DEVICE	Minimum				
	K1	60dB		73		
	AT1	50dB		60.5		
	AT2	50dB		59.5		
	AT3	50dB		59.1		
	AT4	50dB		61.1		
	AT5	50dB		59.1		
	AT6	50dB		58.9		
	AT7	40dB		58.3		
	AT8	50dB		59.8		
	SW1	60dB		76		
	SW2	60dB		86.4		
	SW3	60dB		77.6		
	SW4	60dB		76		
	SW5	60dB		82.9		
	SW6	60dB		82.6		
	SW7	50dB		77.3		
	SW8	60dB		76.2		
SWITCH CONTROL LOGIC	TTL "0"	ON		ON		NOT REQUIRED FOR ACCEPTANCE TEST
	TTL "1"	OFF		OFF		
ATTENUATOR CONTROL VOLTAGE	VOLTAGE RANGE	0 TO 6v		0 to 6V		
	TRANSFER FUNCTION	10dB/V		10dB/V		
DC POWER	Voltages	Max.				NOT REQUIRED FOR ACCEPTANCE TEST
	+5V	5.0A		0.267A		
	+15V	3.0A		0.713A		
	-15V	3.0A		0.443A		
	+28V	1.0A		0.080A		

TEST ON: HP8720C Network Analyzer, E4407B Spectrum Analyzer, Gigatronix 8541
 Universal Power Meter, Tektronix TDS3014B

QA/QC APPROVAL: 

DATED: 2/16/06