



Bobbinttron Electrical Corporation

SPECIFICATION FOR APPROVAL

CUSTOMER: DiGi

PART NAME: RF Antenna Assembly

PART NO.:

REVISION:

W. Y. P/NO.: C424-510065-A

REV.: XI

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :		
DATE :		

Bobbinttron Electrical Corporation
27F, No.183, Hsin Tai Wu Road, Sec.1
His Chuh, Taipei Hsien Taiwan
(886)2-2642-4205
(886)2-2642-3654

RF Antenna Cable Assembly

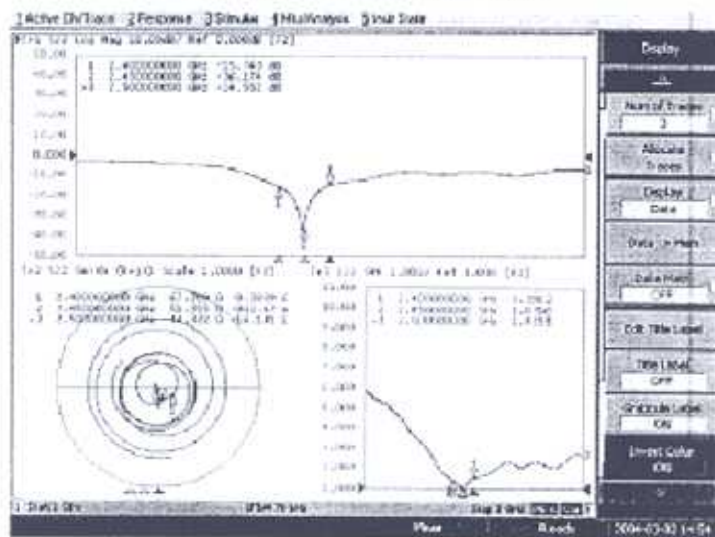
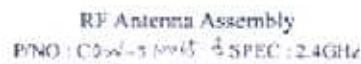
Specification

1. Electrical Properties :

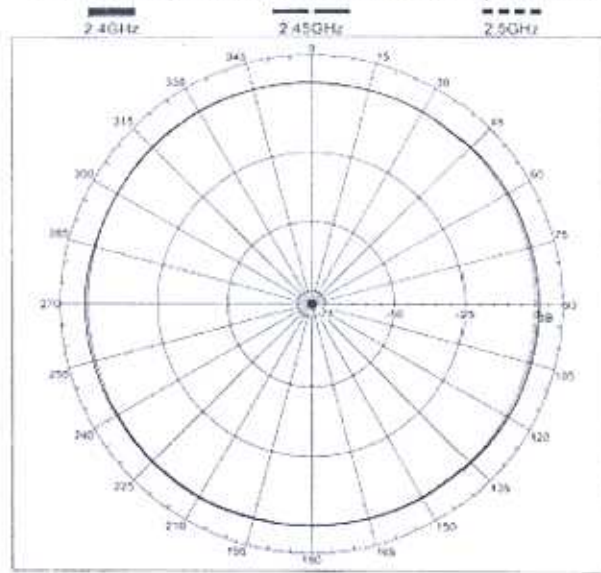
- 1.1 Frequency Rang..... 2.4GHz ~ 2.5GHz
- 1.2 Impedance 50 Ω Nominal
- 1.3 VSWR 1.92 Max.
- 1.4 Return Loss..... -10dB Maximum
- 1.5 Electrical Wave..... 1/2 λ Diople
- 1.6 Gain..... 1.8 dBi
- 1.7 Admitted Power..... 1W

2. Physical Properties :

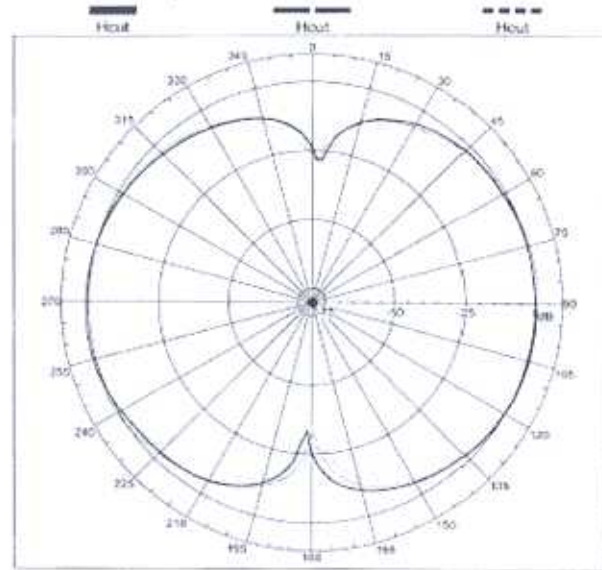
- 2.1 Cable..... RG-174 Coaxial Cable
- 2.2 Antenna Cover..... ABS
- 2.3 Antenna Base..... ABS
- 2.4 Operating Temp. -20 $^{\circ}$ C ~ +65 $^{\circ}$ C
- 2.5 Storage Temp. -30 $^{\circ}$ C ~ +75 $^{\circ}$ C
- 2.6 Color Black
- 2.7 Connector SMA Plug Reverse



Far-field amplitude of ' C424-510065-A ' H-pattern.nsi



Far-field amplitude of ' C424-510065-A ' E-pattern.nsi



Messrs:

Standard: RG-174/U 7/0.16MM X 1C

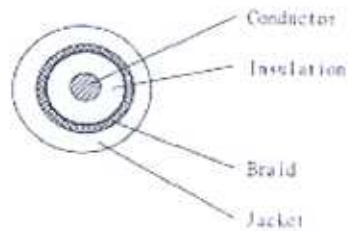
CONSTRUCTION:

ITEM	UNIT	RG-174/U
No. of Wire	P-C	1C
Conductor	Material	Tinned copper Wire
	Size	No./mm 7/0.16
Insulation	Material	PE
	Thickness	mm (NOM.) 0.5
	O.D	mm (NOM.) 1.5
Braid	Material	Tinned copper Wire
Shield	Coverage	% 95 ± (6/14 / 0.1mm)
Jacket	Material	PVC
	O.D	mm (NOM.) 2.5
Temperature Rate	°C	-40 to +80
Marking	RG-174/U COAXIAL CABLE 50Ω CORNDATE	

ELECTRICAL PROPERTIES (20°C):

ITEM	UNIT
A.C Voltage test	KV/Min. 4.5/1
Impedance	Ω 50±2

Attenuation (nom.)	
Mhz	dB/100ft
10	3.3
50	5.8
100	8.4
200	12.5
400	19
900	31
1000	34
1800	49.4
2345	53



* HP 8714A Vector Network Analyzer

bec	DESIGN	REVISION	DATE
Spec. No: S-336950490011A4	APPROVED		



CHI MEI CORPORATION

39-1 SAN CHIA, JEN TE, TAINAN COUNTY, TAIWAN R.O.C. TEL: 836-6-266-3300 FAX: 836-6-266-3355-7

ABS, POLYLAC® PA-765

V10

Properties

特性(Properties)	測試方法(Test Method)	測試條件(Test Condition)	單位(Unit)	PA-765
引張強度 Tensile Strength	ASTM D638	1/8", 6 mm/min	Kg/cm ² (lb/in ²)	390(5530)
延伸率 Tensile Elongation	ASTM D638	1/8", 6 mm/min	%	15
彎曲強度 Flexural Strength	ASTM D790	1/4", 2.8 mm/min	Kg/cm ² (lb/in ²)	620(8800)
彎曲彈性率 Flexural Modulus	ASTM D790	1/4", 2.8 mm/min	Kg/cm ² (lb/in ²)	2100(30000)
IZOD 衝擊強度 Izod Impact Strength	ASTM D256(Notched)	1/4", 23°C 1/8", 23°C	Kg-cm/cm (ft-lb/in) Kg-cm/cm (ft-lb/in)	18(3.3) 22(4.0)
流動係數 Melt Flow Index	ASTM D1238	200°C, 5g	g/10min	5.2
硬度 Hardness	ASTM D785	1/2"	R Scale	100
比重 Specific Gravity	ASTM D792	23°C	-	1.19
軟化點 Vicat Softening Temp.	ASTM D1525	1/8", 50°C/hr	°C (°F)	90(194)
熱變形溫度 H.D.T. Annealed(83°C, 8hr) Unannealed	ASTM D648	1/4", 120°C/hr	°C (°F)	83(181) 73(165)
可燃性 Flammability	UL 94	-	-	1/16" V-0 1/10" 5VA

以上數據僅代表一般通用數據，不代表每一產品的現貨值