# MABA-011020

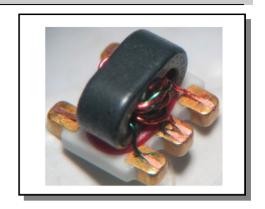


# E-Series RF 1:4 Flux Coupled Step-up Transformer 1MHz - 350MHz

Rev. V1

#### **Features**

- Surface mount
- Wide frequency range
- 1:4 Impedance ratio
- Centre tap on secondary
- RoHS compliant, Lead free
- Available on tape and reel



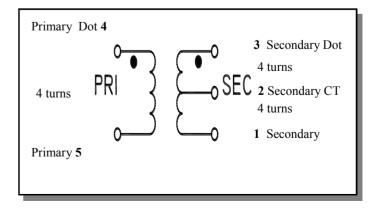
# **Electrical Specifications:** $Z_0 = 50\Omega$ , $T_A = 25$ °C, $P_{in} = 0$ dBm

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	1		350
Impedance		Ω		50	
Impedance Ratio				1:4	
Insertion Loss	5 - 100 MHz 2 - 300 MHz 1 - 350 MHz	dB dB dB	- - -	0.5 0.9 0.8	1.0 2.0 3.0
Amplitude Balance	5 - 100 MHz 1 - 350 MHz	dB dB	-	0.0 0.0	±0.1 ±0.5
Phase Balance	5 - 100 MHz 1 - 350 MHz	0	-	0.1 0.2	±1.0 ±5.0

### **Pin Configuration**

Pin No.	Function	
1	Secondary	
2	Secondary Centre Tap	
3	Secondary Dot	
4	Primary Dot	
5	Primary	

#### **Schematic**



• North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

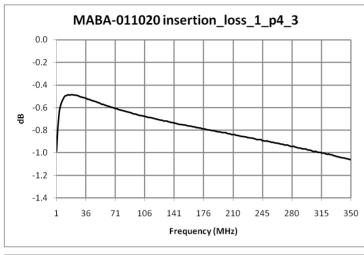
# MABA-011020

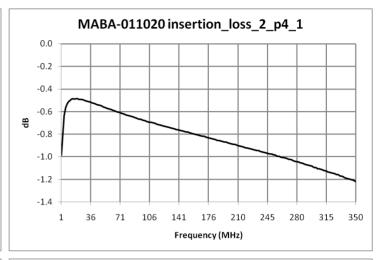


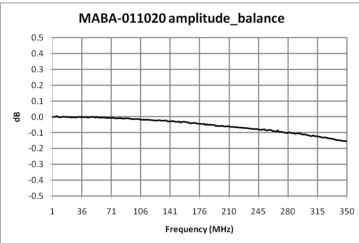
E-Series RF 1:4 Flux Coupled Step-up Transformer 1MHz - 350MHz

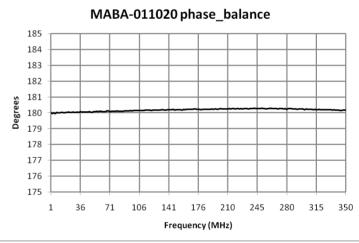
Rev. V1

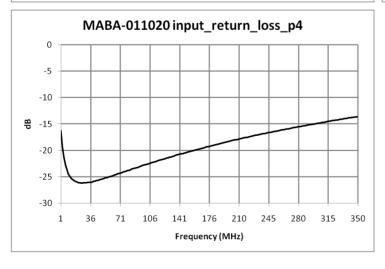
Electrical Specifications:  $Z_0 = 50\Omega$ ,  $T_A = 25$ °C,  $P_{in} = 0$ dBm









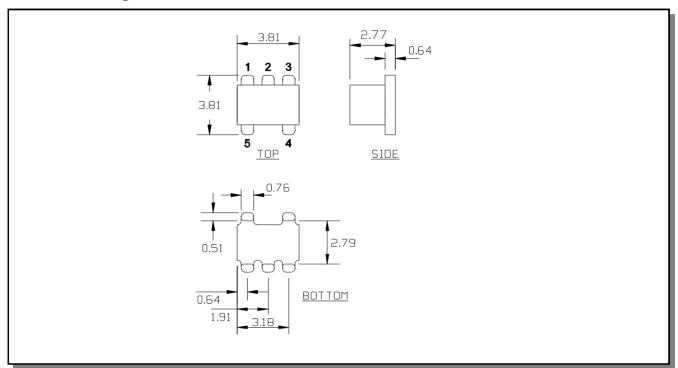




E-Series RF 1:4 Flux Coupled Step-up Transformer 1MHz - 350MHz

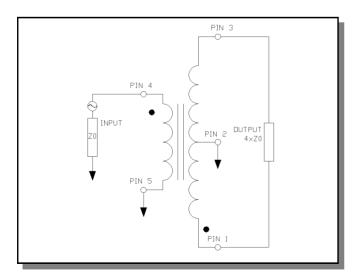
Rev. V1

#### **Outline Drawing**

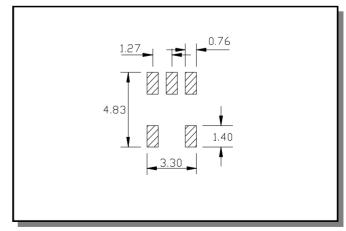


- 1 Dimensions in mm.
- Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- Plating finish: Au

# **Application Circuit**



# **Recommended Footprint**



# MABA-011020



E-Series RF 1:4 Flux Coupled Step-up Transformer 1MHz - 350MHz

Rev. V1

# **Tape & Reel Information**

Parameter	Units	Value		
Qty per reel	-	2000		
Reel size	mm	330		
Tape width (W)	mm	12.0		
Pitch (P <sub>1</sub> )	mm	8.0		
A <sub>0</sub>	mm	4.0		
B <sub>0</sub>	mm	4.0		
K <sub>0</sub>	mm	2.9		
Orientation	-	F5		
Reference Application note ANI-019 for orientation				

### **Ordering Information**

Part Number	Description		
MABA-011020	Tape & Reel		
MABA-011020-TB	Customer Evaluation Board		

### **Recommended Maximum Ratings**

Parameter	Units	Min	Max
DC Power	mW	-	250
DC Current	mA	-	30
Operating Temperature Range	°C	-40	+85

Temperature data available on request