

# RF Directional Coupler

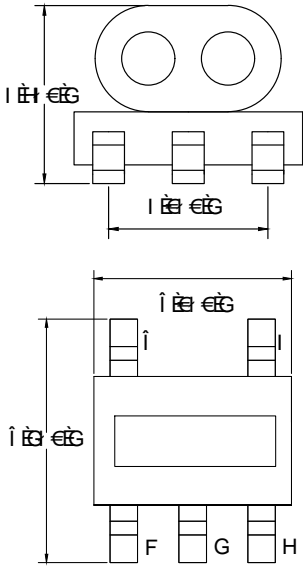
## ECJ0801-D010008

2022-09-05 Rev. 0

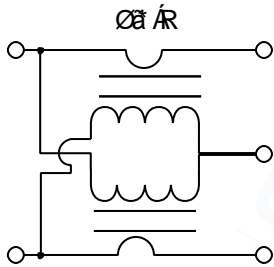


75Ω 8dB Directional Coupler 20-1800MHz

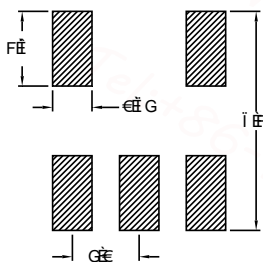
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

Input	1
Coupling	3
Output	6
Round	2
Isolation	4

### Features

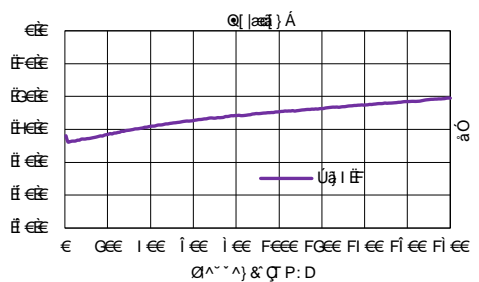
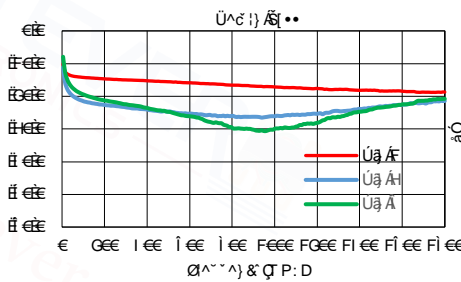
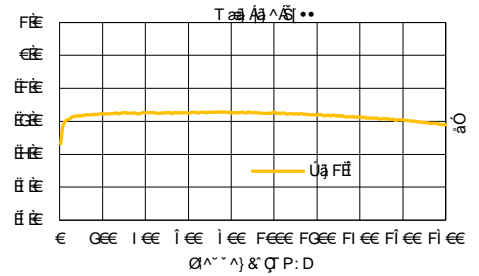
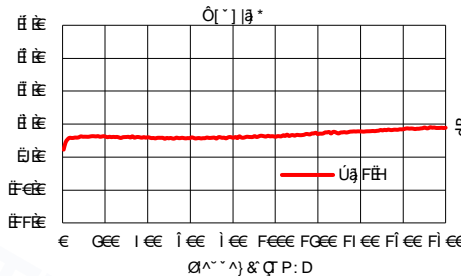
- High precision and high stability
- Wide frequency range
- Low insertion loss
- High isolation
- High return loss
- High reliability

### Applications

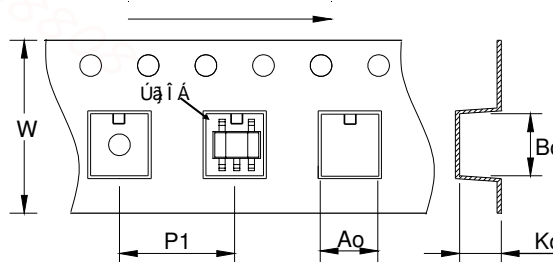
- Power measurement
- Signal monitoring
- Signal distribution
- Signal isolation
- Signal protection

Electrical Specifications: TA=25°C, 0dBm, Z0=75Ω

Parameter	Symbol	Unit	Min	Max	Typ
Insertion Loss	$IL$	dB	0.5	0.8	0.6
Return Loss	$RL$	dB	15	20	18
Isolation	$IS$	dB	20	25	22
Directivity	$DI$	dB	20	25	22
Reflection Coefficient	$ \Gamma $		0.1	0.15	0.12
Transmission Coefficient	$T$		0.9	0.95	0.92



### Carrier Tape Orientation



### Tape & Reel Information

Parameter	Symbol	Unit	Value
Carrier Tape Width	$W$	mm	12.5
Carrier Tape Pitch	$P1$	mm	12.5
Carrier Tape Length	$L$	mm	1000
Carrier Tape Thickness	$T$	mm	0.2
Carrier Tape Material	$M$		FR-4
Carrier Tape Color	$C$		Black
Carrier Tape Marking	$Mk$		ECJ0801-D010008
Carrier Tape Orientation	$O$		0°
Carrier Tape Tolerance	$S$		±0.1