



Yantel's Products in 2-Way Radio Application



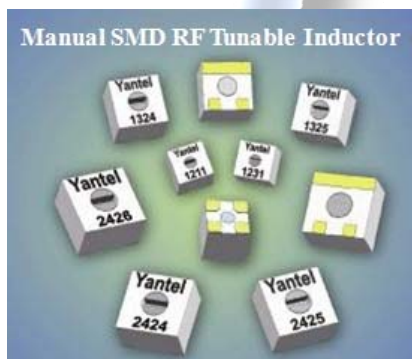
ISO9001-2008



SMD Directional Coupler

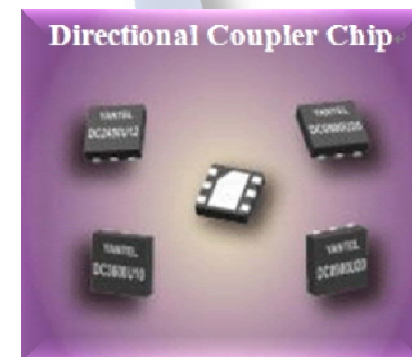


Manual SMD RF Tunable Inductor



**TETRA
PDT、DMR
Explosion-proof
2 way Radio**

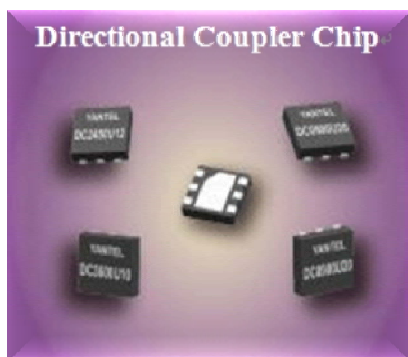
Directional Coupler Chip



Fixed Attenuator Chip



TETRA 2-Way Radio Application



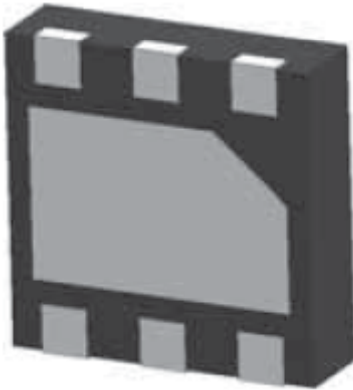
Directional Coupler Chip Basic Specification:

- Frequency : 350~470, 800~900MHz
- Power: 4-5W (Average Power)
- Coupling: 20dB or 30dB
- Size: 2×2mm

Part No.	Freq. Range (MHz) FL~FU	Power (W)	Size LxW (mm)	Coupling (dB)	Insertion loss (dB)	VSWR(:1)	Directivity (dB)
DC0410U20-060	350~380	5	2X2	19~19.5	0.1	1.06	20.2
	380~410			18.3~18.8	0.11	1.06	20
	410~440			17.7~18.2	0.11	1.06	19.7
	440~470			17~17.6	0.11	1.06	19.4
DC0850U20-122	750~800	5	2X2	20.7~20.9	0.06	1.06	10.9
	800~850			20.2~20.6	0.09	1.06	10.9
	850~900			19.8~20.1	0.11	1.06	10.8
	900~950			19.1~19.6	0.09	1.06	10.7

For more P/N and details, please visit : http://www.yantel-corp.com/en/products/products1_181.html

Directional Coupler Chip



Advantages:

- Built with leading edge RFIC design technology
- Wide Freq range 750-4000MHz
- Small Size:2.0 x 2.0 mm
- Very Low Loss & Low VSWR
- Excellent directivity
- Broad frequency coverage
- High isolation
- Good Repeatability
- Tape & Reel
- Power handling:4 or 5 watts

For details, please visit : http://www.yantel-corp.com/en/products/products1_181.html

PDT、DMR 2-Way Radio Application



SMD Directional Coupler Basic Specification:

- **Frequency:** 350~470, 800~900MHz
- **Power:** 20~355W (Average Power)
- **High Return Loss, low insertion loss**
- **CTE Compatible with FR4,G-10,RF-35,RO4350B and polyimide**

Part No.	Freq.Range (GHz) $f_L - f_U$	Power (W)	Size $L \times W$ (mm)	Insertion Loss (dB)	Mean Coupling (dB)	Directivity (dB)	Return (dB)
DC0450E20	0.46 ~ 0.47	100	14.22×5.08	0.3	20.1±1.50	17	20.1
DC0900A20	0.8 ~ 1.0	150	14.22×8.89	0.18	20.0±0.70	20	20.8
DC0900A30	0.8 ~ 1.0	150	14.22×8.89	0.18	30.0±1.50	20	20.8
DC0900B30	0.8 ~ 1.0	355	25.4×12.19	0.10	29.8±1.00	25	24.9
DC3500M10	3.3 ~ 3.7	22	10.16×5.08	0.25	10.5±0.80	20	20.8

For more P/N and details, please visit: http://www.yantel-corp.com/en/products/products1_163.html

SMD Directional Coupler

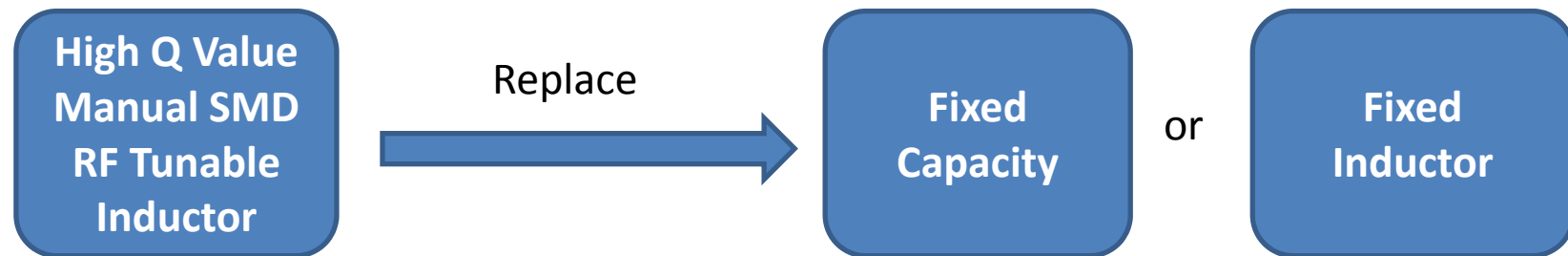


Advantages:

- **Excellent Performance**
- **Low Loss & Low VSWR**
- **Good Repeatability**
- **CTE Compatible with FR4,G-10,RF-35,RO4350B and polyimide**
- **Immersion gold, prevent surface oxidation & scratch**
- **High Reliability**
- **Low Cost**
- **SMD**
- **Tap & Reel Package available**
- **RoHS Compliant**

For details, please visit: http://www.yantel-corp.com/en/products/products1_163.html

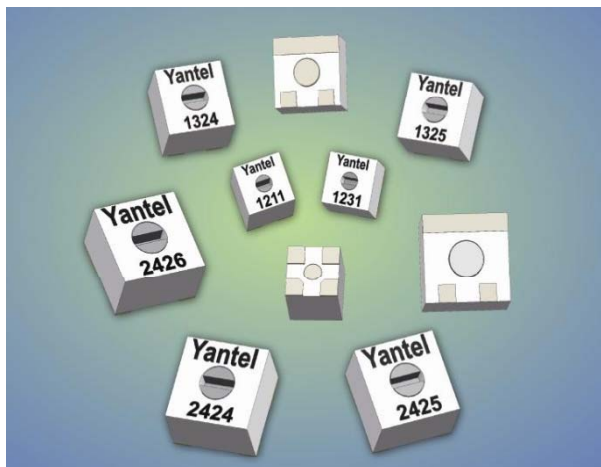
PDT、DMR 2-Way Radio Tuning Application Solution



Advantages:

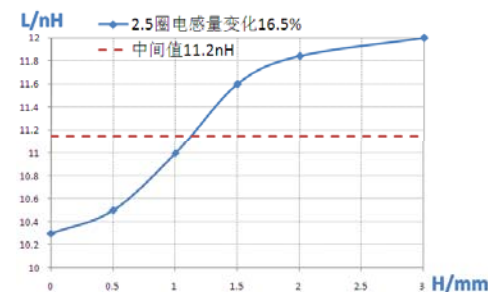
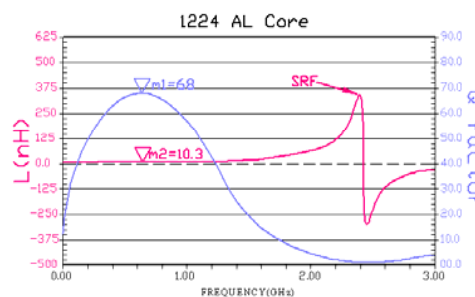
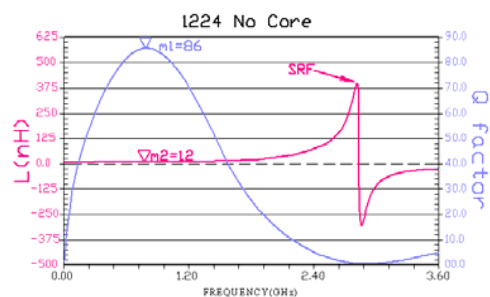
- Reduce the workload of post debugging of every set PDT, DMR 2-Way Radio.
- Improve production efficiency and lower the integrated cost (including labor cost) of the overall debugging.

Manual SMD RF Tunable Inductor



Advantages:

- SMD package able to be mounted or soldered on the PCB
- Operated in RF frequency band up to 6 GHz
- High Q Value
- Operating Temperature: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Keep excellent & stable performance at high temperature
- Good air tightness to realize high Q value
- Small size: $7.5 \times 7.5 \times 3.5(\text{mm})$, $6.5 \times 6.5 \times 3.5(\text{mm})$, $5 \times 5 \times 3(\text{mm})$, $4.2 \times 4.2 \times 3(\text{mm})$, $3 \times 3 \times 3(\text{mm})$
- Easy adjustment
- Core material: Aluminum or Ferrite
- Termination leads: RoHS compliant tin over copper



For details, please visit: http://www.yantel-corp.com/en/products/products1_177.html



Explosion-proof 2-Way Radio Application Solution



Fixed Attenuator Chip Basic Specification:

- Frequency Range: DC-6GHz
- Power: 2W (Average Power)
- Size: 3.7×3.1

We can customize variety of attenuation, including 0.5dB. Price is the same with standard product.

Fixed Attenuator Chip

Specifications

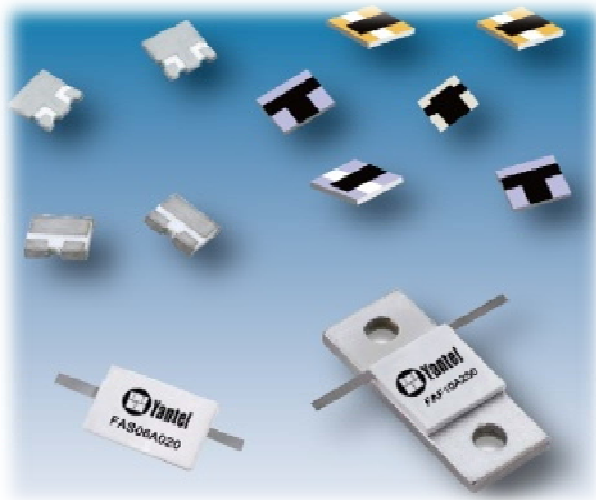
Low Power, SMD, FAC Series(100mW-2W)

DC to 6GHz, 2W , 50Ω, thick film, size(mm): 3.10×3.68×0.53									
Part No.	Attenuation (dB)	Typical Attenuation Accuracy(dB)			VSWR:1 (typical)				
		DC~2GHz	2~4GHz	4~6GHz	DC~2GHz	2~4GHz	4~6GHz		
FAC0601	1	±0.2	+0.3	+0.5	1.10	1.20	1.30		
FAC0602	2	±0.2	+0.5	+0.8	1.10	1.20	1.30		
FAC0603	3	±0.2	+0.5	+0.8	1.10	1.20	1.30		
FAC0606	6	±0.2	+0.5	+0.8	1.10	1.20	1.30		
FAC0610	10	±0.2	+0.3	+0.5	1.10	1.20	1.30		
DC to 10GHz, 100mW, 50Ω, thick film, size(mm): 1.20×2.00×0.53									
Part No.	Attenuation (dB)	Typical Attenuation Accuracy(dB)				VSWR: 1 (typical)			
		DC~4GHz	4~6GHz	6~8GHz	8~10GHz	DC~4GHz	4~6GHz	6~8GHz	8~10GHz
FAC1001	1	±0.3	+0.3	+0.3	+0.5	1.05	1.10	1.15	1.20
FAC1002	2	±0.3	+0.3	+0.4	+0.5	1.05	1.05	1.05	1.10
FAC1003	3	±0.3	+0.3	+0.4	+0.6	1.05	1.05	1.10	1.15
FAC1006	6	±0.3	+0.3	+0.5	+0.7	1.05	1.05	1.05	1.15
FAC1010	10	±0.3	+0.5	+0.75	+1.0	1.05	1.10	1.15	1.20
DC to 12.4GHz, 300mW, 50Ω, thick film, size(mm): 1.52×1.90×0.41									
Part No.	Attenuation (dB)	Typical Attenuation Accuracy(dB)				VSWR: 1 (typical)			
		DC~3GHz	3~6GHz	6~8.5GHz	8.5~12.4GHz	DC~3GHz	3~6GHz	6~8.5GHz	8.5~12.4GHz
FAC1201	1	±0.3	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1202	2	±0.3	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1203	3	±0.3	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1206	6	±0.3	+0.5	+0.75	+1.0	1.05	1.15	1.25	1.40
FAC1210	10	±0.3	+0.5	+0.75	+1.0	1.05	1.20	1.25	1.40

Fixed Attenuator Chip

DC to 12.4GHz, 2W, 50Ω, thin film, gold terminal, size(mm): 3.10×3.68×0.38									
Part No.	Attenuation (dB)	Typical Attenuation Accuracy(dB)				VSWR:1 (typical)			
		DC~3GHz	3~6GHz	6~8.5GHz	8.5~12.4GHz	DC~3GHz	3~6GHz	6~8.5GHz	8.5~12.4GHz
FAC1201P	1	±0.3	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1202P	2	±0.3	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1203P	3	±0.3	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1206P	6	±0.3	+0.5	+0.75	+1.0	1.05	1.15	1.25	1.40
FAC1210P	10	±0.3	+0.5	+0.75	+1.0	1.05	1.20	1.25	1.40
DC to 18GHz, 200mW, 50Ω, thin film, gold terminal, wrap ground terminal, size(mm): 1.52×1.90×0.41									
Part No.	Attenuation (dB)	Typical Attenuation Accuracy(dB)				VSWR:1 (typical)			
		DC ~ 4GHz	4~8GHz	8~12.4GHz	12.4~18GHz	DC~4GHz	4~8GHz	8~12.4GHz	12.4~18GHz
FAC1801	1	±0.5	+0.5	+0.5	+0.8	1.05	1.10	1.15	1.40
FAC1802	2	±0.5	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1803	3	±0.5	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1804	4	±0.5	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1806	6	±0.5	+0.5	+0.75	+1.0	1.05	1.15	1.25	1.40
FAC1810	10	±0.5	+0.5	+0.75	+1.0	1.05	1.20	1.25	1.40
DC to 26.5GHz, 200mW, 50Ω, thin film, gold terminal, wrap ground terminal, size(mm): 1.52×1.90×0.28									
Part No.	Attenuation (dB)	Typical Attenuation Accuracy(dB)				VSWR:1 (typical)			
		DC~8.5GHz	8.5~12.4GHz	12.4~18GHz	18~26.5GHz	DC~8.5GHz	8.5~12.4GHz	12.4~18GHz	18~26.5GHz
FAC2601	1	±0.5	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC2602	2	±0.5	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC2603	3	±0.5	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC2606	6	±0.5	+0.5	+0.75	+1.0	1.05	1.15	1.25	1.40
FAC2610	10	±0.5	+0.5	+0.75	+1.0	1.05	1.20	1.25	1.40

Fixed Attenuator Chip



Advantages:

- Frequency range: DC to 26.5GHz
- Laser trimmed
- Material in Al_2O_3 , BeO or AlN
- Attenuation: 1dB to 30dB
- Input power: 100mW~400W
- High attenuation accuracy
- Low VSWR
- Temperature stable -55°C to +150°C

For details, please visit: http://www.yantel-corp.com/en/products/products1_166.html

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Thanks for your care and support !