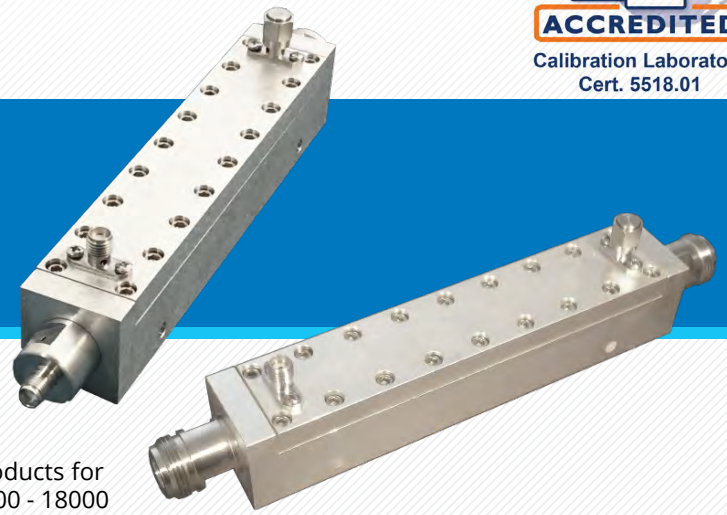


MODEL NUMBER:
DC18G

SINGLE DIRECTIONAL COUPLERS



Type N or SMA, 500-18,000 MHz 10, 20, or 30 Single Directional Coupler

The EMC Shop, LLC Model DC18G is one of EMC's new products for broadband at coupling value over the full frequency range 500 - 18000 MHz. The frequency sensitivity is included in the coupling accuracy specification over the full frequency range per the chart. The unit uses a unique tapered coaxial airline continuous taper construction with an RFI compression sealing system for temperature insensitive performance and RF leakage control. The air dielectric and solid conductors are associated with low insertion loss, very high power and low PIM performance.

FEATURES:

- Low VSWR and Loss
- High Reliability, Low PIM
- All Coupling Values can be supplied with 4 connectors for use with an external termination

PARAMETER	SPECIFICATION		
Frequency Range:	500-18,000 MHz		
Coupling:	10 dB	20 dB	30 dB
Directivity:	0.5-16 GHz	16-18 GHz	15 dB (20dB Typ.)
	15dB MIN	13dB MIN	
Insertion Loss, Max:	0.5 dB	0.3 dB	
VSWR:	1.25-1.35 Typical		
Nominal dB Value @ 500 MHz:	12.75 dB	22.5 dB	32.5 dB
Nominal dB Value @ 500 MHz:	11.0 dB	21.0 dB	31.0 dB
Coupling Accuracy, 1-18 GHz:	±1.25 dB	±1.0 dB	±1.0 dB
PIM 2X20W:	160 dBc		
Main In/Out Power, SMA:	10 W Avg / 3 kW Peak	50 W Avg / 3 kW Peak	
Main In/Out Power, Type N:	20 W Avg / 3 kW Peak	400 W Avg / 3 kW Peak	
Cpl Port In/Out Power, SMA:	1 W Avg / 1 kW Peak		
Cpl Port In/Out Power, Type N:	2 W Avg / 1.5 kW Peak		
Connectors:	Type N or SMA female		
MATERIAL:			
Housing	Aluminum, Silver Plated		
Inner Conductor & Connectors	Brass, Silver Plated		
Finish:	Paint, RAL1013 (Oyster White)		

OUTLINE DRAWING

