ETL Systems
New technologies
in RF distribution

CP10KX-438060-K5K5K5

Coaxial Directional Coupler

30W 18-40 GHz 10dB

- High power handling capability
- Wide band operation
- High directivity within operational band
- Low Insertion loss
- Stable performance over temperature
- LMDS multi-carrier operation
- High peak to average handle capability
- All specifications can be modified upon request

General Specification					
Parameters		**Min.**	**Typ.**	**Max.**	**Units**
Frequency Range		18		40	GHz
Nominal Coupling		9	10	11	dB
Frequency Sensitivity			±0.7	±1.0	dB
Directivity		12	15		dB
Insertion Loss (Excl Coupling)				1.1	dB
Insertion Loss (True)			1.4	1.6	dB
VSWR Primary			1.45	1.6	:1
VSWR Secondary			1.45	1.6	:1
Power Rating	Average	30			W
	Peak	500 (10% duty cycle, 1us pulse width)			W
Impedance		50			Ohms
Weight		0.9 Max			Ounces
Input / Output Connectors		2.92mm-Female (Stainless Steel)			
Material		Aluminium			
Finish		Grey Paint			

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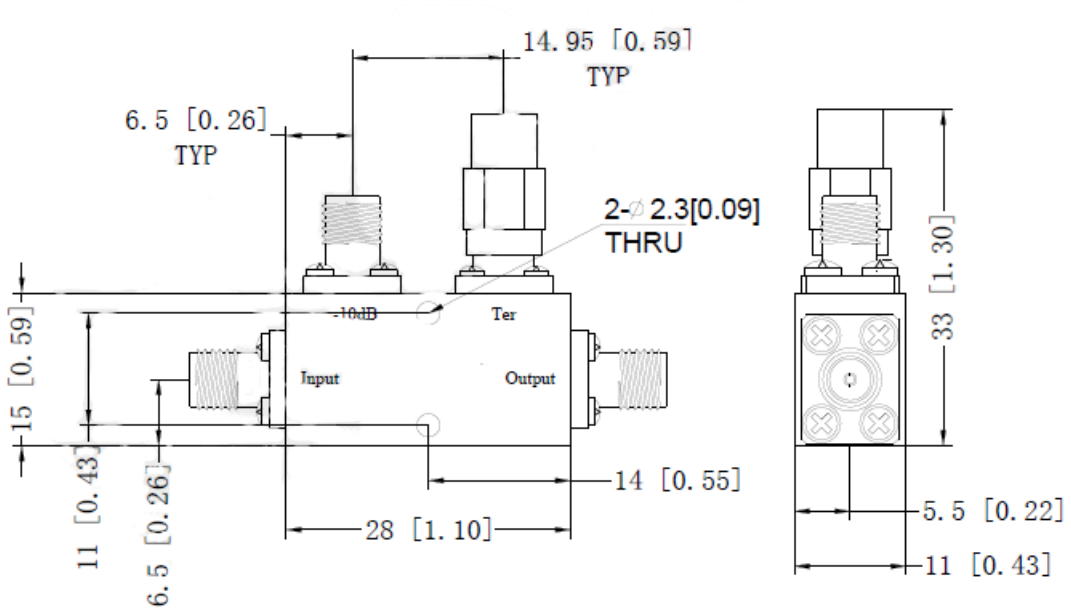
Environmental Specification	
Operating Temperature	-40ºC — +85ºC
Storage Temperature	-50ºC — +105ºC
Altitude	30,000 ft (Epoxy sealed Controlled environment)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35ºC, 95%RH at 40ºC
Shock	20G for 11msec half sine wave,3 axis both directions

Outline Drawing:

All Dimensions in mm (inches)
Outline Tolerances ±0.5(0.02)
Mounting Holes Tolerances ±0.2(0.008)



Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.