





#### INTRODUCTION

Carlisle Interconnect Technologies TMP<sup>®</sup> connectors are designed to provide a convenient blind-mateable interconnect solution specifically for high power applications. The TMP<sup>®</sup> interface is comparable in size to an SMA connector, and offers similar power handling capability and durability in a push-on configuration. It is ideal for design in radar, missile and satellite systems, as well as, commercial applications.

The design of the push-on interface enables use in microwave modules and dense packages, and facilitates rapid assembly and testing. The durable construction and ability to tolerate radial and axial misalignment allows for multiple engagement/ disengagement cycles without degradation in electrical performance.

# FEATURES

- » Frequency Range: DC 23 GHz
- » 50  $\Omega$  Impedance; Blind-mateable configuration
- » > 5000 mate & de-mate cycles
- » MIL-PRF-39012 compliant
- » Ability to withstand Radial/Axial Misalignment
- » Board-mount, Field-replaceable, Bullets, and Cable Connector configurations
- » Custom Connectors Available

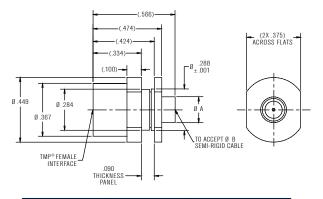
# SPECIFICATIONS

Parameter	Specification	
Impedance	50 <b>Ω</b>	
Frequency Range	DC - 23 GHz	
VSWR	1.2+.005xf (GHz)	
Insertion Loss	.05x√f (GHz)	
Radial Misalignment	+/020 inches	
Axial Misalignment	.000020 inches	
Temperature Range	-65°C to +125°C	
Power Handling	Over 200 Watts @ S Band	
Environmental	Meets MIL-PRF-39012 for Corrosion, Vibration, Moisture resistance, Thermal and Mechanical Shock.	
Force to Engage		
Full Detent	6.0 lbs typical	
Limited Detent	4.5 lbs typical	
Smooth Bore	3.0 lbs typical	
Force to Disengage		
Full Detent	7.5 lbs typical	
Limited Detent	6.0 lbs typical	
Smooth Bore	2.0 lbs typical	



# **CABLE CONNECTORS**

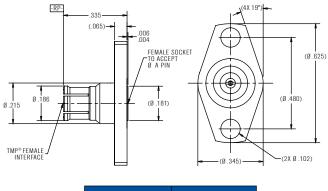
# TMP® Female Bulkhead to Semi-Rigid Cable / MP503



Part Number	ØA	Cable Type(s)
-1CCSF	(.100)	Ø .047 Semi-Rigid
-2CCSF	(.120)	Ø .086 Semi-Rigid

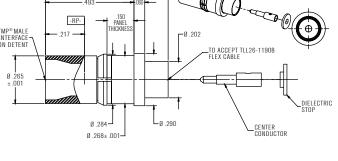
# FIELD REPLACEABLE CONNECTORS

# TMP® Female 2 Hole Flange Mount / MP531

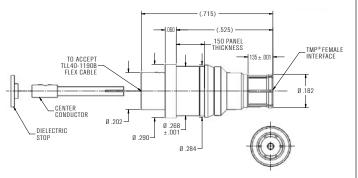


Part Number	ØA		
-100	.0200 ± .0005		

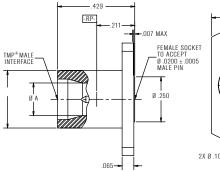
#### TMP® Male Snap-In Panel Mount to TLL26-1190B Flex Cable / MP504 (.683) .493 Colored Colored .150 PANEL THICKNES -RP-TMP® MALE INTERFACE NON DETENT .217 -Ø.202 TO ACCEPT TLL26-1190B FLEX CABLE Ø.265 ±.001

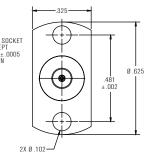






TMP® Male 2 Hole Flange Mount / MP532

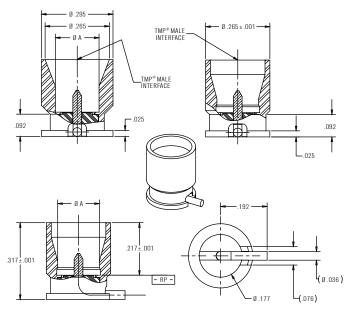




Part Number	ØA	Interface(s)	
-1CCSF	(.172)	Full Detent	
-2CCSF	(.176)	Limited Detent	
-3CCSF	(.180)	Smooth Bore	

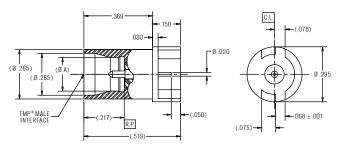
# PC BOARD CONNECTORS

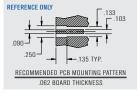
# TMP® Male to R/A Termination, Surface Mount / MP703



Part Number	Interface(s)	
-100	Full Detent	
-200	Limited Detent	
-300	Smooth Bore	

# TMP® Plug Edge Mount to Straight Termination / MP602

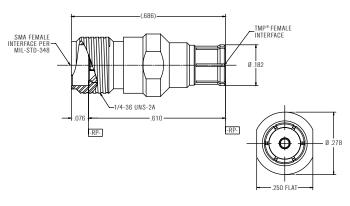




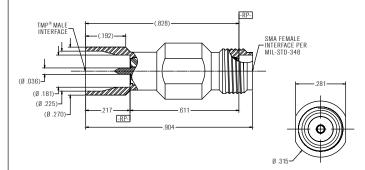
Part Number	Interface(s)	
-100	Full Detent	
-200	Limited Detent	
-300	Smooth Bore	

# ADAPTERS



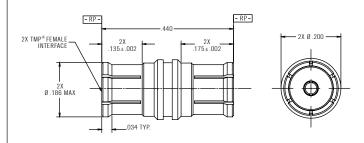


#### TMP® Male to SMA Female / MP544



### BULLETS

# TMP® Female to TMP® Female / MP541



# **Ordering Information**









Configuration	Part Number	Description	Detent	Comments
MP503-1CCSF		TMP (female) Bulkhead for 0.047" semi-rigid cables		
	MP503-2CCSF	TMP (female) Bulkhead for 0.086" semi-rigid cables		
Coble Connectore	MP504-1CCSF	TMP (male) panel mt. for Carlisle TLL26-1190B flexible cable		
Cable Connectors	MP504-2CCSF	TMP (male) panel mt. for 0.141" semi-rigid cables		
	MP505-1CC	TMP (female) panel mt. for Carlisle TLL26-1190B flexible cable		
	MP505-2CC	TMP (female) panel mt. for 0.141" semi-rigid cables		
_	MP602-1CC		Full	Please consult factory if connectors required for different
	MP602-2CC	TMP plug (male) Edge Mount to straight termination for 0.062" thick boards	Limited	
PC Board	MP602-3CC	Smooth Bore	board thickness	
Connectors	MP703-1CC		Full	
	MP703-2CC	TMP plug (male) Surface Mount to right angle termination	Limited	
	MP703-3CC		Smooth Bore	
Bullets	MP541-1CC	TMP (female) to TMP (female) adapter, 0.440" length		
	MP531-1CC	TMP(female) 2-hole panel mount for 0.020" pins		
Field Replaceable Connectors	MP532-1CCSF*		Full	Please consult factory if connectors required for different pin diameters
	MP532-2CCSF*	TMP (male) 2-hole panel mount for 0.020" pins	Limited	
	MP532-3CCSF*		Smooth Bore	
	MP544-1CCSF	TMP (male) to SMA (female) adapter	Smooth Bore	
Adapters*	MP543-1CC TMP (female) to SMA (female) adapter			

Parts with a 'CC' suffix are Gold Plated / Parts with a 'CCSF' suffix are Passivated Steel \*Standard parts have a Passivated Steel finish. Gold finish options also available.

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